

*"Selected"*  
**OIL OF LEMON.**  
 Genuine and of Guaranteed Purity.  
 This Oil is unsurpassed for aroma and strength.

*Sinest*  
**FRUIT ESSENCES.**  
 Prepared from Selected Fruit by Special Process.

*Highly Concentrated*  
**FRUIT ESSENCES**  
 for Flavouring purposes, and Confectionery of every description.

*Pure Harmless*  
**VEGETABLE COLOURS**  
 for Confectionery. Of guaranteed purity and exceptional brilliancy.

AND ALL MATERIALS  
 REQUIRED BY  
 Brewers,  
 Rectifiers,  
 Cordial Makers,  
 Wine and Spirit  
 Merchants,  
 Mineral Water  
 Makers, &c. &c.

# STEVENSON AND HOWELL.

FELLOWS OF THE CHEMICAL SOCIETY &c &c.

MANUFACTURING CHEMISTS

DISTILLERS AND IMPORTERS OF

**ESSENTIAL OILS  
 OF GUARANTEED PURITY**

**PURE CONCENTRATED  
 SOLUBLE  
 ESSENCES.**

**FRUIT-ESSENCES**

**PURE COLORINGS  
 OF EVERY DESCRIPTION**

ANALYTICAL AND CONSULTING CHEMISTS  
 TO THE TRADE.

*"Extra Quality"*  
 Soluble Essence of  
**JAMAICA GINGER.**  
 For Aerated Beverages,  
 Cordials, Syrups, &c.  
 This Essence is  
 unequalled.

*FINEST*  
**SOLUBLE ESSENCES**  
*OF EVERY DESCRIPTION,*  
 for the Production of Perfect  
 Aerated Beverages,  
 Cordials,  
 Syrups,  
 &c.

*Soluble, Brilliant, Permanent.*  
**COLOURINGS**  
*Of Guaranteed Purity.*  
 for Brewers, Distillers,  
 Mineral Water  
 and Cordial  
 Makers.

*American*  
**FOAM SYRUP,**  
 For giving a close Creamy  
 Head to all Beverages.  
 One Pound is sufficient  
 for 150 gallons of  
 liquor.

AND ALL MATERIALS  
 REQUIRED BY  
 Manufacturing  
 Confectioners,  
 Wholesale  
 Tobacconists,  
 Perfumers,  
 Soap Makers  
 Biscuit Makers, &c. &c.

**STANDARD WORKS, 95<sup>A</sup>, SOUTHWARK ST., LONDON. S.E.**  
**AND 128, HOPE ST., GLASGOW.**

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# Pears' Soap



(25 inches high.)

*These celebrated Statuettes are supplied free to Retail Buyers upon conditions to be obtained on application to*

**A. & F. PEARS,**  
71-75 New Oxford Street, W.C.

# Winter Wants.

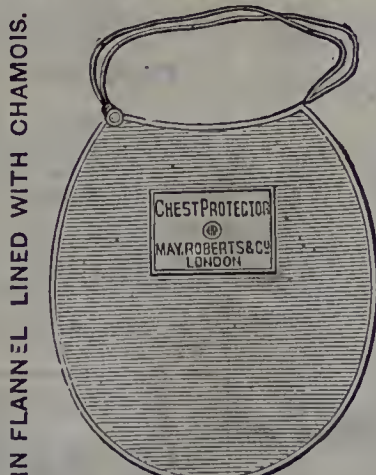
Another Season's trade is approaching. Already there are indications of a rigorous winter. The mornings are raw and cold, evenings chilly, and winds biting. None know so well as Chemists and Druggists the intimate relation between the barometer and health. Bad weather means various things; some of them we give quotations for on this page, with this brief hint: We are in the best position in the world for supplying the best goods, at the best prices, and on the best terms. We employ no Travellers, and give our Customers the advantage of the saving in expenses.

## CHEST PROTECTORS.



IN FELT.

No. 1, 15/, to No. 5, 36/ per doz.



IN FLANNEL LINED WITH CHAMOIS.

No. 0, 4/9, to No. 5, 16/6 per doz.



BEST QUALITY FELT.

RED AND NATURAL.

No. 1, 18/, to No. 4, 28/ per doz.

Only Best Quality of Materials used, and finished in splendid style.



BRONCHITIS KETTLES.

Oval, in Tin, 5/8 and 6/3. Cheaper kinds, 1/10 and 2/0.

HOT-WATER



BOTTLES.

3/7 to 8/ each.  
Scarlet covers, 1/ to 2/ extra.Plain White, 1/9.  
Marbled.... 2/-.

SALEABLE SPECIALITIES, put up ready for retailing; quality of material in all cases excellent, and style of putting-up elegant.

CAMPHORATED GLYCERINE ROLL—In  $\frac{1}{2}$  and  $\frac{1}{4}$  gross glass-top boxes 14., 5/; 24., 9/6 per gross.

In 1-doz. glass-top boxes, 3d., 1/6; 6d., 3s. per dozen.

GLYCERINE JELLY—M. R. &amp; Co.'s 6d. bottles, 2/6 per dozen.

GUTTA PERCHA (for Stopping Teeth)—In boxes containing 12 sticks, 14/ per dozen boxes.

Each stick in gold paper case, 1/9 per dozen box.

1d. squares, neatly wrapped, 2/3 per gross.

4-oz. sheets, 3/.

INHALERS—Coghill's, Mackenzie's, Godfrey's, and other Ammonia Chloride Inhalers, at lowest prices.

LIP SALVE—Rose or White, in push-up cases, in 1-doz. glass-top outers, 2/2 per dozen.

PLASTERS of all kinds, on paper, oilco, swansdown, leather, &amp;c., porous or other wise. See Price List, pp. 46-47.

PROPRIETARY WINTER REQUISITES  
AT SPECIAL TERMS, FOR CASH.

# MAY, ROBERTS & CO.,

WHOLESALE

DRUGGISTS' SUNDRIESMEN

Dealers in Patent Medicines, Proprietary Articles, Perfumery, Mineral Waters, Lozenges, &amp;c., &amp;c.

9 CLERKENWELL ROAD, LONDON, E.C.

# THE WESTMINSTER COLLEGE OF CHEMISTRY & PHARMACY, TRINITY SQUARE, BOROUGH, LONDON, S.E.

The SESSION commenced on TUESDAY, SEPTEMBER 1, 1891.

The object of this School is to impart to Students a thorough pharmaceutical and chemical education of the highest standard, and at the same time to fit them for passing the Minor and Major Examinations of the Pharmaceutical Society.

"This college claims to be the largest pharmaceutical school in Great Britain, and there is ample evidence that it is so."—*Chemist and Druggist*.

"We have visited Mr. Wills' establishment, and having thoroughly gone into every particular in connection with the working of the system, have much pleasure in recommending it."—*The Magazine of Chemistry and Pharmacy*.

"We believe that any student can become a Pharmaceutical Chemist if he Wills it."—*Mather's Price Current*.

## WILLS'S UNIVERSAL POSTAL SYSTEM.

Fees—Minor, £1 1s.; Major or Preliminary, 10s. 6d.

"Those who cannot attend a school of pharmacy will find 'Wills' Universal Postal System' train them in a way they should go."—*Chemist and Druggist*.

"Mr. Wills, of Westminster College, one of our most thoroughly successful tutors, extends him a helping hand, leaving it simply his own fault, and deserving it, if he blindly labours on in ignorant darkness."—*Magazine of Chemistry and Pharmacy*.

For Syllabus apply to Messrs. WILLS & WOOTTON.

## THE LIVERPOOL SCHOOL OF PHARMACY 24 NEWINGTON, LIVERPOOL.

Principal—J. S. WARD, Ph.Ch., F.C.S., &c.

### JULY "PASS LIST."

#### MAJOR.

Mr. R. C. COWLEY, Douglas. (*Only one sent in.*)

Mr. Cowley passed both Minor and Major at the first attempt.)

#### MINOR.

|                                   |                                          |
|-----------------------------------|------------------------------------------|
| Mr. G. BAXENDALE, Con-<br>gleton. | Mr. J. H. GRIFFITHS, Little<br>Brighton. |
| " W. E. BELL, Bootle.             | " W. HOLMES, Liverpool.                  |
| " J. B. DAVIES, Abergele.         | " W. J. MOON, Ilfracombe.                |
| " R. G. EMERY, Burslem.           | " D. OWEN, Amlwch.                       |
| " E. GRIFFITHS, Bodedern.         | " N. S. WHITE, Liverpool.                |

#### SCHOLARSHIPS.

Mr. H. A. D. JOWETT won a "Bell" Scholarship (*taking the highest position*).

NOTE.—In 1887 Mr. W. A. SALTER took a "Bell" Scholarship; in 1889 Mr. E. B. SHERLOCK took the "Redwood" Scholarship; and both of them afterwards became Pereira Medallists.

### THE HIGHER EDUCATION.

During the present vacation extensive alterations have been made to meet the requirements of the New Schedule. . . The accommodation and appliances of the Chemical Laboratory have been increased, a Pharmaceutical Laboratory constructed, and provision made for practical microscopic work in Botany and Materia Medica.

The New Session begins on Tuesday, September 1, 1891.

Syllabus, with Pass Lists, Fees, &c., sent post free on application to the Principal.

## LONDON HOMOEOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.C.

President—THE LORD EBUUY. Chairman—MAJOR WM. VAUGHAN MORGAN.

Contains 90 Beds, and being entirely supported by Voluntary Contributions, Donations and Annual Subscriptions are earnestly solicited. The Hospital is always open to the inspection of visitors, and Clinical Instruction is given in the Wards and Out-patient Department to Medical Students and Practitioners. It possesses a valuable Library of Homoeopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. The In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 215,000. It has a staff of 42 Nurses for Ward Nursing and Nursing Invalids at their residences.

G. A. CROSS, Secretary-Superintendent.

### OUR CHILDREN'S EARS. VINCENT WOOD'S INVENTION.



The "EUREKA" EAR CAP prevents children from laying upon their ears during sleep, which causes the unsightliness of prominent EARS. The cap is thoroughly porous, washable, and most becoming to wear. Made in six sizes, 1 to 6, for infants to seven years of age. Now being largely advertised at 3/6 and 4/6 each.

PRICE, from all Wholesale Houses, at 24/- dozen. Or apply  
VINCENT WOOD, 3 St. Andrew's St., Holborn Circus, E.C.

## THE NORTHERN SCHOOL OF PHARMACY,

100 Burlington St., MANCHESTER.

PRINCIPAL—MR. GEORGE CLAYTON, PH.C.

At the recent July Examinations Twenty-six Students from the Northern School entered; Twenty passed.

At the previous April Examinations Sixteen Students entered; Eleven passed.

There are three distinct sets of classes running for Minor and Major:—(a) Full-time Day Course; (b) Afternoon Course; (c) Evening Course.

Prospectus, with Supplement and Pass Lists, posted to any address.

### "CONCILIO ET LABORE."

## THE MANCHESTER COLLEGE OF PHARMACY,

225 & 227a OXFORD STREET, MANCHESTER.

Directors: { Mr. W. SPENCER TURNER, } Pharmaceutical  
                  { Mr. CHARLES TURNER, F.C.S. } Chemists.

The M. C. P. was established in 1882, at which time there was no other school specially devoted to Pharmaceutical Education in the district; and Mr. W. S. Turner had successfully prepared students for both Minor and Major several years before then, as may be seen by reference to old JOURNALS.

A special course of ALL the MINOR and MAJOR Classes, at low, inclusive fees, will begin work on or about October 12th, so that Students can join it when the holidays are well over, and work steadily with a fortnight's break at Christmas) for the April or July Examinations. Copyright prospectus on application.

## SELL LIKE RIPE CHERRIES

### TOM BROOKS'S

## "SWEET SOLID PERFUMES."

Six odours, everlasting and delicious; pronounced far and away best on market.

Retail 2d each, Wholesale 12/- per gross, 1/3 gross Carriage Paid.

SPECIAL OFFER.—A 2-dozen Box (assorted), as Sample, will be sent Post Free on receipt of 2/-

May be obtained of BARCLAY; EVANS, LESCHER & WEBB; BAISS BROTHERS, and all Wholesale Houses. [2]

TOM BROOKS, CHEMIST, HORNSEY, LONDON, N.

RECEIVED

# BLAUD'S PILLS.

## CAUTION!

THE majority of these Pills at present on the Market are utterly useless. Owing to defective manufacture they do not retain the Ferri Sulph. and Pot. Carb. in a free state, but oxidation takes place speedily, and a few days after they are made Ferric Oxide becomes the principal constituent. Resin is in many instances used in the process of Coating, the result being that the Pills pass through the alimentary canal undissolved.

The original design of the formula being therefore frustrated, the results anticipated from its use cannot be realised, and disappointment and dissatisfaction arise. Quite recently a medical friend of ours experimented upon some of the cheap class of so-called Blaud's Pills by placing them in water. At the end of 14 days there was no evidence of change.

Our process of manufacture is a special one (known only to ourselves), and effectually obviates the difficulties above mentioned, with the result that the demand for our make is enormous, probably far exceeding the output of all our imitators.

Whilst offering Blaud's Pills at a reasonable price, we guarantee the ingredients used to be of the best possible quality, and that no chemical change occurs; their action may consequently be always relied upon.

Price (in original 10-gross tins bearing our name and trade mark) 8d. per gross. Usual discount.

*Special quotations at reduced rates for larger quantities.*

## COMPRESSED TABLETS OF PURE DRUGS.

OWING to the greatly increased demand for drugs in Compressed Tablets, we have been compelled to augment and improve our Machinery for their production on a larger scale. There has hitherto been considerable objection to some drugs in this form in consequence of the difficulty of their solubility; in order to meet this, we now specially prepare all drugs which are not readily soluble, on a new principle, with a result that disintegration ensues in a few seconds. This may be tested by placing the Tablets in water.

The standard quality of the ingredients is maintained as heretofore, and we beg to call special attention to the following exceptionally low rates:—

|                                          | 1 lb. | 7 lbs. | The following totally disintegrate in<br>a few seconds. | 1 lb. | 7 lbs. |
|------------------------------------------|-------|--------|---------------------------------------------------------|-------|--------|
| Potass. Chlor. . . . .                   | 1/3   | 1/-    | Antipyrin . . . . .                                     | 50/-  | —      |
| Potass. Chlor. c. Boracis . . . . .      | 1/3   | 1/-    | Sulphur. Sub., gr. iij. . . . .                         | 1/3   | 1/-    |
| Cocain, Pot. Chlor. et Boracis . . . . . | 4/-   | 3/9    | Sulphur. Sub., gr. v. . . . .                           | 1/3   | 1/-    |
| Sodii Bicarb. . . . .                    | 1/3   | 1/-    | Sulphonol . . . . .                                     | 25/-  | —      |
| Soda Mints . . . . .                     | 1/9   | 1/6    | Salol . . . . .                                         | 18/-  | —      |
| Soda and Ginger . . . . .                | 1/3   | 1/-    | Phenacetin . . . . .                                    | 36/-  | —      |
| Sulph. Co. (Garrod's) . . . . .          | 1/3   | 1/-    | Antifebrin . . . . .                                    | 5/6   | —      |
| Quinina Bisulph. . . . .                 | 30/-  | 28/-   |                                                         |       |        |

The above prices are strictly net, and for Tablets in bulk. In bottles for retail see our Price Current, page 22.

## JOHN RICHARDSON & CO., LEICESTER.

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**BARCLAY & SONS, Ltd.**

BARCLAY'S STRONG CHEMISTS'

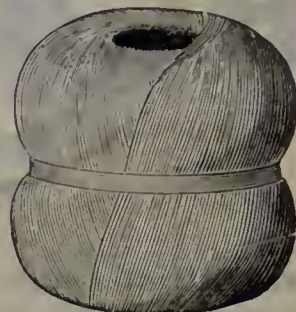
## LINEN COUNTER TWINE

In 1-lb. Boxes. 7 Colours. **1/6 PER LB.** In 1-lb. Boxes. 7 Colours.

White, Pink, Green, Blue, Yellow, Turkey Red, and Salmon.

**TWINES** also in Stock—per lb. (in 4-oz. Balls):—  
 Flax, Pink .. .. 2/ | Flax, White .. 1/6 & 1/10  
 " " Superior .. 2/9 | " " Superior .. 2/6  
 " " extra thin 3/9 | " " Stout .. 1/6

**COTTON TWINE**, in 2-oz. Balls, assorted colours, per lb. Box 1/10.



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 ESTABLISHED UPWARDS OF A CENTURY.

# CHEMICAL AND SCIENTIFIC APPARATUS.

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Manufacturers and Importers of every description  
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By Appointment to H.M. Hon. Board of Inland Revenue, Science and  
 Art Department, Royal School of Mines, Trinity House,  
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ILLUSTRATED PRICE LISTS ON APPLICATION.

**65 BARBICAN, LONDON, E.C.**



### TOWNSEND'S ALMANACKS FOR 1892.

**X READ THIS**

A CUSTOMER IN GUERNSEY says:—"Please print and send me 2,000 36 page Universals. Allow me to congratulate you on your sample, which improves every year, and my customers appreciate them more and more, and their advertising value steadily increases."

**X ALSO THIS**

A CUSTOMER IN SCOTLAND writes:—"Your Almanack was greatly appreciated in this district. The matter is interesting as well as instructive, and the printing all that could be desired; with thanks for your prompt attention to order."

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# ALMANACKS

NEW DESIGNS.

**1892**

FRESH NOVELTIES.

SEND FOR SAMPLES.

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### WINTER SEASON, 1891-92.

## FAMILY REFERENCE ALMANACK, 1892.

Chemists may be supplied with the above popular Annual with their names, &c., on the cover, free of charge, on writing to Messrs. KAY BROTHERS LIMITED, and undertaking their distribution from house to house as soon as received. Also 1,000 bills for counter use, with name and address, if asked for. Enclose two (2) labels for correct address, with population of the district and best means of conveyance, under cover (labels on post-cards being contrary to regulations), addressed "Advertisement Department," at earliest convenience. The Almanacks will be sent direct from the printer with counter bills, show-cards, &c., if required.

TRADE **"COAGULINE"** MARK.

Kay's New Transparent Cement for Broken Articles.

"Clear as Crystal," "Stronger than Glass," "Tough as Leather," 6d., 1s., 2s., in Boxes, or on Cards. Show-cards, Handbills, with name, &c. Specimens, &c., for home, or export, free.

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Essence of Linseed, Aniseed, Senega, Squill, Tolu, &c. (With Chlorodyne), 9½d., 13½d., 2s. 9d., &c.

## KAY BROTHERS LIMITED.

LABORATORY AND WORKS:  
 ST. PETERSGATE MILLS, STOCKPORT.

1891.

**TWENTY-FIFTH SEASON.**

THE

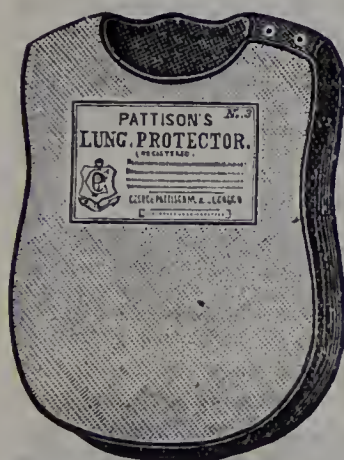
# LUNG PROTECTOR

(REGISTERED).

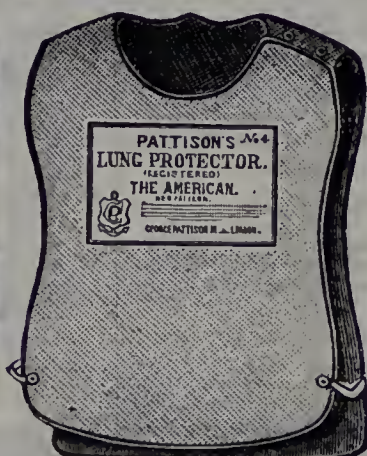
*"AN ARTICLE OF ACKNOWLEDGED EXCELLENCE."*

The "LUNG PROTECTOR" continues to be made only from the same Fine Soft Wool which has always been used since its introduction, 25 years ago.

Chemists are respectfully cautioned against imitations made from lower quality Wool, although sold as "Best Felt."



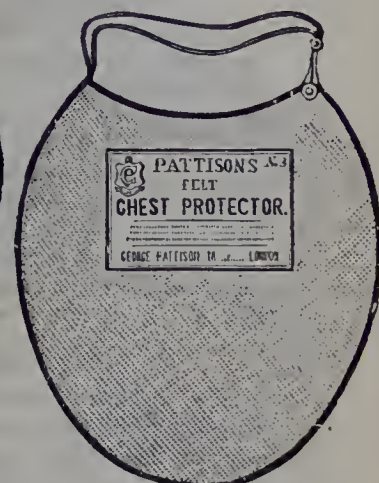
The Lung Protector.  
ORIGINAL PATTERN.



Lung Protector.  
THE AMERICAN.



Lung Protector.  
THE CANADIAN.



Chest Protector.

**PRICES:**

|                                 | No. 00 | No. 0 | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 | No. 6 | No. 7         |
|---------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|---------------|
| ORIGINAL PATTERN, Nine sizes... | 10/-   | 14/-  | 18/-  | 28/-  | 34/-  | 42/-  | 52/-  | 60/-  | 70/- per doz. |
| THE AMERICAN, Seven sizes ...   | —      | —     | 20/-  | 28/-  | 36/-  | 44/-  | 54/-  | 62/-  | 72/- "        |
| THE CANADIAN, Seven sizes ...   | —      | —     | 22/-  | 30/-  | 40/-  | 50/-  | 60/-  | 70/-  | 80/- "        |

## FELT CHEST PROTECTORS.

|                | No. 00 | No. 0 | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 | No. 6 | No. 7         |
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| Nine sizes ... | 4/-    | 6/-   | 8/-   | 10/-  | 12/-  | 16/-  | 20/-  | 24/-  | 28/- per doz. |

*All in Scarlet and White, and made in same Wool as the "Lung Protector."*

**FELT CHEST PROTECTORS, C QUALITY** { Single .. No. 1, 7/-; 2, 9/-; 3, 11/-; 4, 14/-; 5, 18/- per dozen.  
Double.. No. 1, 16/-; 2, 22/-; 3, 28/-; 4, 34/-; 5, 44/- per dozen.

These are warranted equal to BEST of other makers, but are NOT recommended.

Terms: All Wholesale Houses either allow a large Discount for Cash, or quote the goods at Reduced Net Cash prices.

# GEORGE PATTISON,

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# EXCHANGE COLUMN.

This Section of "The Chemist and Druggist" must be closed for press by Thursday noon of each week.  
Remittances payable to EDWARD HALSE.

## TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of 1d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word, his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C., and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word, as e.g., £1 10s. 6d.

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Squire's "Companion" (14th, new), 5s. 6d.;  
Martindale's "Extra Pharmacopœia" (6th, new), 5s. 45/35.

### Formulæ.

Veterinary and chemist's formulæ from all over England; thoroughly reliable; 2s. 6d. each.  
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Copying-ink; gives three perfect copies immediately and one month after; contains no iron, and won't stick; 5s. Radcliffe Cottage, Middleton, Lancashire.

Genuine recipes:—Butter coloring, liquid annatto, weed-killer, arsenical sheep-dip, carbolic sheep-dip—3s. 6d. each. 266/39.

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To Students—Set of Wills' "Text Books," latest editions; also Materia Medica Specimens; write for list. "Passed," 606 Harrow Road.

## Proprietary Articles.

Golden opportunity.—Moosee Bitters, Pills, Ointment, all sizes, at half retail prices; new stock, perfectly clean; cash with order. Adam, Chemist, Pigott Street, Birmingham.

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Show-cases, shop-fittings, carboys, shop-rounds, ointment-jars, utensils of every description; selling off; lease expiring. Natali, 184 Aldersgate Street, London.

Shop-fittings (second-hand) for sale, very cheap; range of drawers, 12 ft. long, price 8l.; counter, 12 ft. long, with plate-glass front, 10l. 10s.; dispensing-screen, mirror centre, 6 ft. long, 6l. 10s.; shop-rounds, carboys, and other fittings. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

## Miscellaneous.

Microscopic slides, interesting, medical, educational; from 2s. 6d. dozen; lists. B., 233 Maida Vale, W.

Five hundred boxes, 7 lbs. each, of Swedish pitch at 8d. per box. Radcliffe Cottage, Middleton, Lancs.

Petroleum jelly, patents, carotene, killicorn, gravy salts, disinfectant fluid, drugs, entire fittings of shop, glue-cisterns. 136/53.

Show carboy, 8 gallons, height 37½ inches, diameter 15½ inches, cut stopper; cash offers. Elliott, Shepherd's Bush, London.

Two wrought-iron standards, with two arms, for carboys, weighing about 1 cwt., 28s., cheap; 8-inch marbled porcelain letters for Chemist and Druggist, 20s.; *Pharmaceutical Journal* for last six years, 25s. Hartley, Leek.

Two gross best black teats, 5s. gross; black tubing, 1 lb, 7s. post free; black cloth waterproof, perfectly new, Inverness cape, 30s., cost 45s., approval; 2 new india-rubber door-mats, round and square air-cushions, air bed, hot-water bags, cheap, new. M.P.S., 4 Commercial Road, Peckham, London.

## WANTED.

Chemist and Druggist for February 23th, May 12th, October 27th, 1888. Elliott, Shepherd's Bush, London.

Secondhand glass door, with lobby fittings, for shop. Olive, Briton Ferry.

Gray's Supplement; state condition, lowest price. Handley, care of Rae, Chemist, Newmarket.

In good condition, Scott's "British Plants." State lowest price, 10 Bargates, Whitchurch, Salop.

# COOK'S PURE SOAPS.

MEDAL FOR PURITY AT SANITARY INSTITUTE, 1889.

## SAVON DE LUXE.

The newest and most perfect Toilet Soap, absolutely Pure.

LUXURIOUSLY PERFUMED.

Grateful to the most delicate skin. Each tablet a work of art.

ASK FOR PAMPHLET AND PARTICULARS.

SIX PRIZE MEDALS AT GREAT EXHIBITIONS FOR EXCELLENCE AND PURITY.

## GOLD MEDAL ANTISEPTIC SOAP.

(Thomson's Patent).

A perfect Germ destroyer. Invaluable in all Infectious Diseases.

Cures or alleviates Irritation and skin diseases.

GOLD MEDAL, PARIS, 1889.

Apply for Particulars and Irreproachable Testimonials.

See *Lancet*, 12th May, 1888, page 936.

## PURE HOUSEHOLD TOILET SOAPS

OF EVERY DESCRIPTION.

SPECIALITIES FOR THE TRADE.

All preparations carefully tested, and manufactured under scientific supervision.

Can be obtained through  
MESSRS. S. MAW, SON & THOMPSON, LONDON, OR FROM E. COOK & CO., LONDON.



100 leaves in tin box, price 5s.

**IF YOU TRY THEM  
YOU WILL BUY THEM!**

A Test and Comparison will show that the Mustard Plasters prepared by **JOHNSON & JOHNSON** are of greater strength and generally superior to others. They do not decompose nor change with age. They are packed in very handsome containers, in packages, to retail at from 1d. to 1/6 each.

# THEY ARE THE MOST PROFITABLE

To all concerned in Mustard Plasters because they are the best made.

## TRADE PRICE LIST OF JOHNSON & JOHNSON'S PROVED MUSTARD PLASTERS

|     |                                              | On Paper | On O'oth | Retail price |
|-----|----------------------------------------------|----------|----------|--------------|
| \$  | 3 leaves in round tin box, per dozen .. ..   | 2/9      | 3/       | 1/6 each     |
| 6   | " " " " " " " " " " " " " " " " "            | 5/       | 5/8      |              |
| 10  | " flat " " " " " " " " " " " " " " " "       | 7/       | 8/6      | 1/6 "        |
| 100 | " one in envelope, in tin box, per box .. .. | 5/       | 6/       | /11 "        |
|     | Yard rolls, 6 in. wide, per dozen .. ..      | 7/       | 8/6      | 1/6 "        |
|     | Half-yard rolls, 6 in. wide, per dozen .. .. | 5/6      | 6/       | 1/ "         |

Sample Mustard Leaf mailed to any chemist's address, without charge, on application; or on receipt of 2d. in stamps. 1 box 10 leaves paper (see ent), and 1 box 3 leaves cloth, retail for 2/



10 leaves in flat tin box, at 7s. per doz. boxes.

# LONDON CORN PLASTERS.



# JOHNSON & JOHNSON

Briefly described as follows :—The centre is a piece of Salicylic Plaster Mass (40 per cent.) which is placed over the corn.

Around this is a corn shield which prevents pressure from the boot, and the Salicylio from going beyond and injuring the flesh.

The whole is kept in position by means of a strip of adhesive plaster on the back.

# SALEABLE

## BECAUSE

# SENSIBLE

Packed in 6d. and 1/ boxes. Sample dozen mailed to any chemist's address, on receipt of 3/6 for the 6d. size, or 6/6 for the 1/ size.

# ABSORBENT COTTON WOOL.



Rolled with Tissue Paper between to prevent felting,

## The Invention of JOHNSON & JOHNSON.

**AS EASY TO APPLY AS A CLOTH BANDAGE.**

Every raw cotton fibre is a flat twisted tube filled with oil, wax, resin, and covered with pectose and other matter.

To make Absorbent Wool, we extract these foreign substances by repeated boiling, rinsing, and bleaching, until the true fibre (cellulose)—nothing else—remains.

We then card and sterilise.

Section of Cotton Fibre enlarged.

The product is strong, elastic, and perfect Absorbent Wool.  
Our present output is two tons per day.

In ordering from Wholesale Trade, specify **JOHNSON & JOHNSON.**

**JOHNSON & JOHNSON, LIM., 1 & 2 AUSTRALIAN AVENUE, E.C.**

# SYPHONS & SELTZOGENES



**SODAWATER  
MACHINERY**  
AND APPLIANCES  
**BRATBY & HINCHLIFFE LTD**  
ANCOATS 146 MINORIES  
**MANCHESTER & LONDON EC**  
81 ROBERTSON STREET, GLASGOW.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



## PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

## SELTZOGENES.

|     |     |    |    |      |            |
|-----|-----|----|----|------|------------|
| 1   | 2   | 3  | 4  | 5    | 8 pint.    |
| 5/6 | 6/2 | 7/ | 8/ | 9/11 | 15/6 each. |

# "PREMIER BRAND" ESSENTIAL OILS.

Concentrated Fruit Essences—Soluble

MANUFACTURED BY

# JOHN CUMMOCK

*Who has received Hundreds of Unsolicited Testimonials, also THREE GOLD MEDALS, besides other Honours.*

Chemists manufacturing their own Aërated Drinks should write for Prices and Samples of the following:—

ESSENCE "SPARKLING LIMETTA"—Soluble "Essence of Lemon"

ESSENCE "LEMON SQUASH"—Essence for Sherbet

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AND COMPARE WITH OTHER MAKERS.

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LATE 32 MAIN STREET.

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Table  
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The Queen.

**IDRIS & CO.** now supply a larger number of the London Hospitals, Public Institutions, and Chemists than any other Manufacturer, which is in itself a sufficient guarantee of the excellence and purity of the Waters supplied by them.

"I have examined the Mineral Waters prepared by IDRIS & CO., and find that in regard to Chemical purity and brilliancy they are unsurpassable."

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ELEGANT SYPHONS. BEST PRICES. PROMPT DELIVERY. WRITE FOR PRICE LIST.

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Where all orders and communications should  
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Town is nearly complete, and  
is being fitted with new and  
improved appliances for turn-  
out the most



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## SOLUBLE ESSENCES

ARE GUARANTEED TO BE THE FINEST IN THE MARKET

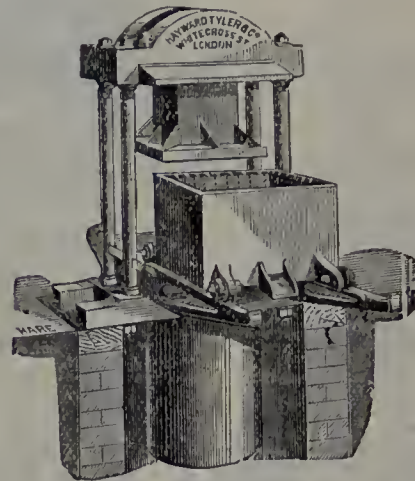
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W. HAY, MANUFACTURING CHEMIST

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IN ORDERING SPECIFY HAY'S MANUFACTURE

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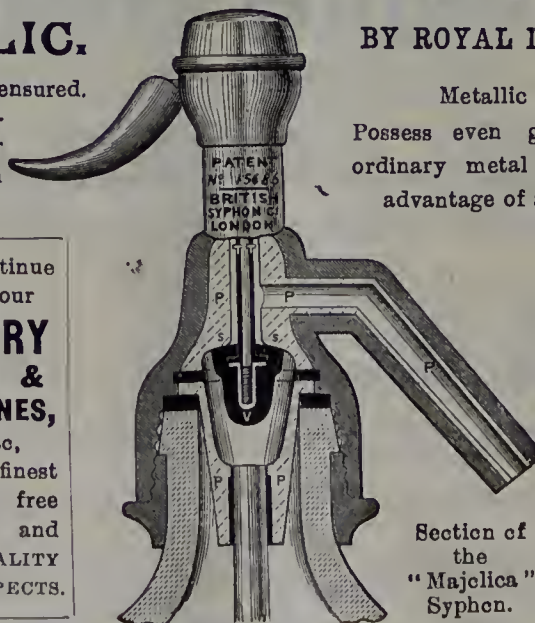
Absolute Purity of the Water ensured.  
Suitable for all kinds of beverages, sweetened, medicinal, or otherwise. Each Syphon and Seltzogene guaranteed.

BY ROYAL LETTERS PATENT, No. 15686.

Metallic contamination utterly impossible.  
Possess even greater strength and durability than ordinary metal heads, combined with the immense advantage of always being clean and non-oxidisable.



We still continue to warrant our  
**ORDINARY  
SYPHONS &  
SELTZOGENES,**  
as hitherto,  
to be of the finest  
tin, entirely free  
from lead, and  
FIRST QUALITY  
IN ALL RESPECTS.



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the  
"Majolica"  
Syphen.

WRITE  
FOR SAMPLE  
AND SEE  
OPINION OF  
THE ENTIRE  
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Prices and  
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## TOPS THE TRADE

ONLY PRIZE MEDAL,



LONDON, 1881.

RAISED BY THE  
PERSISTENT ENERGY  
AND GREAT CARE  
OF CHEMISTS

| Year | No. of Members | Dividend |
|------|----------------|----------|
| 1878 | 119            | None     |
| 1879 | 350            | None     |
| 1880 | 430            | None     |
| 1881 | 540            | None     |
| 1882 | 615            | 3½       |
| 1883 | 708            | 5        |

TELEGRAPHIC ADDRESSES:

Rubine, London.  
Chemists, Starbeck, Harrogate.  
Camwal, Bristol.

HIGHEST PRIZE MEDAL,



BRADFORD, 1882.

STRENGTHENED AND  
SUPPORTED BY THE  
APPROBATION OF THE  
MEDICAL PROFESSION

| Year | No. of Members | Dividend |
|------|----------------|----------|
| 1884 | 908            | 6        |
| 1885 | 1,193          | 6        |
| 1886 | 1,463          | 6        |
| 1887 | 1,612          | 7½       |
| 1888 | 1,892          | 5        |
| 1889 | 2,031          | 7½       |
| 1890 | 2088           | 8¾       |

TELEGRAPHIC ADDRESSES:

Rubine, London.  
Chemists, Starbeck, Harrogate.  
Camwal, Bristol.



This Company manufactures the various descriptions of Mineral Waters of the highest class and of specified formula, and supplies **ONLY** Chemists and Hospitals.

### PRICES.

|                  |    |                       |    | In Corked Bots. | In Syphons. |                                     |    |    |    | In Corked Bots. | In Syphons. |
|------------------|----|-----------------------|----|-----------------|-------------|-------------------------------------|----|----|----|-----------------|-------------|
| Carbonated Water | .. | ..                    | .. | 1/-             | 1/8         | Lime Juice                          | .. | .. | .. | 1/-             | 2/8         |
| Soda             | "  | 5 Grains to Half-Pint | .. | 1/-             | 1/8         | Ginger Ale                          | .. | .. | .. | 1/-             | 2/8         |
| Soda             | "  | B.P. 15               | .. | 1/-             | 1/8         | Ginger Beer, Glass                  | .. | .. | .. | 1/-             | 2/8         |
| Potash           | "  | 5                     | "  | 1/-             | 1/8         | Lithia, B.P., 5 grains to Half-pint | .. | .. | .. | 1/8             | 2/8         |
| Potash           | "  | B.P. 15               | "  | 1/-             | 1/8         | Iron and Quinine Water              | .. | .. | .. | 1/8             | —           |
| Seltzer          | .. | ..                    | .. | 1/-             | 1/8         | Mineral Acid                        | .. | .. | .. | 1/8             | —           |
| Lemonade         | .. | ..                    | .. | 1/-             | 2/8         |                                     |    |    |    |                 |             |

Syphons, 24s. per dozen.

Cases—3 dozen 3s. 6d.; 4 dozen 4s. 6d.; 6 dozen 5s. 6d. each.

Empties allowed for at same prices.

3d. per dozen charged extra for the delivery of Syphons in London.

### SYRUPS.

In 26-oz. bottles, handsomely labelled and capsuled. Raspberry, Strawberry, Cherry, Red Currant, Black Currant, Pine Apple, &c., 8/- per dozen. Lime Fruit Cordial, 6/6 per dozen. Bottles charged 1/- per dozen, and allowed for on return.

A holder (Chemist) of £1 share is entitled to all the advantages of this Association.

SAMPLE CASE OF WATERS SENT FREE.

Handbills with Name and Prices supplied gratis to Shareholders.

**The Chemists' Aerated and Mineral Waters Association, Limited,**  
**LONDON, HARROGATE, & BRISTOL.**

NONE GENUINE WITHOUT THE



# TOWER TEA

HIGHEST AWARD, PARIS, 1889.

Analysis by the "LANCET," December 20th, 1890:—

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."

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Where Vacancies exist, Agencies are appointed by



PRIZE MEDAL, PARIS, 1889.

## THE GREAT TOWER STREET TEA CO., LIMITED

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**CHEMISTS' TEA AGENCY.**  
**WALKER & DALRYMPLE'S TEAS.**  
 REDUCED IN PRICE 2d. per lb.

**WALKER & DALRYMPLE'S**

BROKEN-LEAF TEA, 1s. 6d. per lb.

A MONEY SAVING TEA. ABSOLUTELY PURE.

The small leaf from some of the finest India and China Teas. Produces Tea in the cup, stronger, richer, and cheaper than most whole-leaf Teas. Agents appointed, where unrepresented, throughout the United Kingdom.

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INTERMEDIATE TEA, 1s. 10d. per lb.

BEST at the PRICE EVER SOLD. Great strength, and a most useful Tea where there is a large consumption. Recommended to all who wish to SAVE in their Tea. Agents appointed where unrepresented throughout the United Kingdom.

**WALKER & DALRYMPLE'S TEAS.—**

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Warehouses, 154, 155, 159, and 160 WHITECHAPEL ROAD, and 2, 4, 6, 8, 10, 11, and 12 BRADY STREET, LONDON.

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TRADE MARK, STAG'S HEAD.



The Tannin Minimised.

ABSOLUTELY PURE.

EASILY DIGESTED.

SOLD ONLY BY CHEMISTS

Price List on Application.

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RED AND WHITE ROSES, THE MOST POPULAR CACHOU IN THE TRADE, FRAGRANT "BOUQUET" CACHOUS, HELIOTROPE, VIOLET, ORANGE BLOSSOM, PRIMROSE.

The excellence of the perfume and the superior make of these Cachous create a great demand wherever they are introduced. Price 2s. 6d. per lb., 5 per cent. discount.

Samples on application

Parcels of 14 lbs. forwarded carriage paid, with a handsome Glass Show Jar gratis (fig. A, No. 5, Maw's list), on receipt of P.O.O. for 33s.

**RAIMES & CO., WHOLESALE DRUGGISTS, YORK & EDINBURGH**  
 LONDON AGENTS—TIDMAN & SON, 21 WILSON STREET, E.C.

Natural arsenious and

**Quercus Spring**  
 ferrugineous Mineral-water.

BREBRENICA in Bosnia.

Will be found of great value in the treatment of Anæmia, Chlorosis, Intermitting fever, Malaria, Diseases of the Nerves, &c.

Easily to digest.

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To be had of all Chemists and Druggists.

BY SPECIAL  
 H.R.H. THE DUKE OF  
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APPOINTMENT TO  
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## BOURNE WATERS.

THE PUREST IN ENGLAND.

R. M. MILLS &amp; CO., BOURNE, LINCOLNSHIRE,

MANUFACTURERS OF

SODA, POTASH, LITHIA, AND SELTZER WATERS  
 LEMONADE, AND AROMATIC GINGER ALE.

4-dozen and 6-dozen Cases Carriage Paid.

Special attention is invited to our manufacture of

**LITHIA WATER.**

Each Bottle contains an average dose of Carbonate of Lithia—the recognised Specific for Gout.

THE LATEST SPECIALITY—the Celebrated Artesian Bourne Water in Pints and Quarts for Table Use.

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between the fictitious nutritive value of such invalid foods as are mainly composed of Gelatine or the extractive matters of meat, or both, as many so-called peptones, meat essences, &c., are, and the true

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which is not yielded by its GELATINE nor by its EXTRACTIVES, but by the ALBUMINOID matters it contains, and which, by Denaayer's process, are dissolved and converted by pepsine into a delightful and elegant preparation.

See *THE LANCET*, May 2nd; *HOSPITAL GAZETTE*, June 5th; *CHEMIST AND DRUGGIST*, April 16th; *ANALYST*, May 1st upon Mr. Denaayer's new method for the Analysis of Peptones, whereby the gelatine is capable of determination, whereas this body has hitherto been unavoidably included with peptone albumose by analysts.

Description will best be appreciated with the articles before you, therefore you are invited to send for a free sample of DENAAYER'S STERILIZED PEPTONE OF MEAT (2/- per bottle, ready for use).

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PULVIS FERRI PEPTONATIS (Denaayer), 4/- per ounce.

PEPSINA PORCI (Denaayer), 3/- per bottle, one-third of an ounce.

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In 1-oz., 2-oz., and 4-oz. Packets, and  $\frac{1}{4}$ ,  $\frac{1}{2}$ , 1 lb. Tins only.



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GOLD MEDAL, Amsterdam, 1883. DIPLOMA OF HONOUR, Paris, 1887.

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SYPHONS WITH SHORT LEVER, with Metal Tops of Pure Tin, carefully mounted, and the glass of the first quality.

GAZOSELTZ, for the instantaneous production of Aërated Beverages at table. Anyone can use them.

"CONTINUOUS PROCESS" Apparatus complete, guaranteed without flaw in construction, possessing perfect action, and tested to a high pressure, while fulfilling every desirable condition of sanitation and economy.



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Most Delicious Sauce in the World. Bottles, 6d., 1s., and 2s. each.

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The Best in the World. 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

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One 6d. Tin is equal to 25 eggs. In 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

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Delicious Custards without Eggs. In Boxes, 2d., 6d., and 1s. each.

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Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

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Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

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Makes the Best Ginger-Beer. Packets, 3d. and 6d.

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For Painting Stoves, Grates, Iron, Tin, &amp;c. 6d. and 1s. Bottle.

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Make a Delicious and Nutritious Jelly. In  $\frac{1}{2}$ -pint, 1-pint and Quart Boxes, 3d., 6d., and 1s. each.

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HOSPITAL FOR CONSUMPTION, BROMPTON.  
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"Please supply 120 tins Mason's Essence of Beef as before."

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The "O.K." Bouillon is the best and cheapest Beef Tea ever put before the public. It is made in England from British Beef. It can be sold as low as 6d. per tin.

CONCENTRATED BEEF TEA, MEAT LOZENGES.

MASON'S MALTED FOOD FOR INFANTS.

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Chemists wishing to push their own name will find this package very suitable. The name and address sent must be printed, to avoid mistakes; will be ready for delivery within a week of receipt of order.

In Gross Parcels only through the Wholesale or direct, with your Name and Address, and Carriage Paid, on receipt of Postal Order, 25/-

Or can be had through the Wholesale in 3 dozen boxes, without name and address, at 25/- per gross.

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## SEABURY'S HYDRONAPHTHOL SOAP

(One Per Cent. and Five Per Cent.).

Recommended and prescribed by Dr. Morgan Dockrell (Physician to St. John's Hospital for Skin Diseases, London), Dr. Leslie Phillips (Surgeon to the Birmingham and Midland Skin and Lock Hospital), and other eminent Dermatologists.

For general domestic use, Hydronaphthol (One Per Cent.) is the *ideal* Toilet Soap. It promotes the healing of slight Wounds, Cuts, Chapped Hands, Pimples, and other mild Skin Diseases.

Price 8/- per dozen Tins.

## SEABURY'S FRAGRANT HYDRONAPHTHOL PASTILLES, FOR

DISINFECTING, DEODORISING, AND PURIFYING  
SICK-ROOMS, &c.,

In rapidly-increasing demand.

Price 8/- per dozen Boxes.

## Liquor Hydronaphtholis

(SEABURY'S)

Is so prepared that one fluid drachm dissolved in one pint of hot water makes a thoroughly antiseptic solution (1 in 2200) sufficient for all ordinary purposes.

|                                           |     |                 |
|-------------------------------------------|-----|-----------------|
| Put up in 4-ounce Bottles ...             | ... | 18/- per dozen. |
| With Nickel Measures, for carrying in ... | ... | 24/- per dozen. |
| Operating Bag ...                         | ... | 4/- each.       |
| In Pint Bottles, for Dispensing ...       | ... |                 |

## "HYDRONAPHTHOL"

Non-Toxic, Non-Corrosive, Odourless, Antiseptic,  
Germicide, Antiparasitic.

"Hydronaphthol" must not be confounded with Naphthaline,  $\beta$  Naphthol, or any other of the Naphthol series; its antiseptic power is much higher, and it is non-toxic.

Sold in 1-oz. bottles, 1/- oz., or 13/- lb.; in 1 lb. tins, 10/- lb. or in  $\frac{1}{4}$ ,  $\frac{1}{2}$ , and 1-lb. bottles, 10/- lb.; bottles extra.

We manufacture the various Preparations required in Antiseptic Surgery, Dermatology, and for Dental use.

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"We have experimentally proved that LISTERINE is a powerful Antiseptic, preventing the development of Bacteria and Decomposition of Vegetable Infusions."—*British Medical Journal*, May 3, 1891.

# LISTERINE.

ANTISEPTIC, PROPHYLACTIC, DEODORANT, NON-TOXIC,  
NON-IRRITANT, NON-ESCHAROTIC, ABSOLUTELY SAFE, AGREEABLE, & CONVENIENT.

**FORMULA.**—Listerine is the essential antiseptic constituent of Thyme, Eucalyptus, Baptisia, Gantharia, and Mentha Arvensis, in combination. Each Fluid Drachm also contains two grains of refined and purified Benzo-boric Acid.

**DOSE.**—Internally: One Teaspoonful three or more times a day (as indicated), either full strength or diluted, as necessary for varied conditions.

LISTERINE is a well-proven antiseptic agent—an antizymotic—especially useful in the management of catarrhal conditions of the mucous membrane, adapted to internal use, and to make and maintain surgical cleanliness—asepsis—in the treatment of all parts of the human body, whether by spray, irrigation, atomization, or simple local application, and therefore characterised by its particular adaptability to the field of

## PREVENTIVE MEDICINE—INDIVIDUAL PROPHYLAXIS.

LISTERINE destroys promptly all odours emanating from diseased gums and teeth, and will be found of great value when taken internally in teaspoonful doses, to control the fermentative eructations of dyspepsia, and to disinfect the Mouth, Throat, and Stomach. It is a

## PERFECT TOOTH AND MOUTH WASH,

Its value in this direction having been fully determined by the most conservative element of the Dental Profession.

14-OZ. SIZE, UNSTAMPED, FOR DISPENSING ONLY, PER DOZ. 38/-

Samples and further information regarding the products of the LAMBERT PHARMACAL CO. may be had by application to the Company at St. Louis, U.S., or to our

Wholesale Agents for Great Britain and the Colonies, excepting Canada,

**S. MAW, SON & THOMPSON,** 7 TO 12 ALDERSGATE STREET, **LONDON, E.C.**

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BLACK AND WHITE

## MITCHAM

## PEPPERMINT OILS,

NEW CROP (1891),

**NOW READY.**

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(Proprietors of POTTER & MOORE),

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## CHEMISTS SAVE TIME AND MONEY

By selling my "Plain Label" \* Lines. Should remit prices quoted for sample  $\frac{1}{2}$ -gross lots. Carriage Paid (Sauces excepted) first occasion; if not satisfactory, I will pay carriage back, and return cash.

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On  $\frac{1}{2}$ -gross Cards .. .. . Per Gross 5/6 and 6/6

### \*PENNY (Tasteless) PILLS.

6 in a box,  $\frac{1}{2}$ -gross Cards .. .. . 4/6

### SPECIAL NEW LINE.

### \*PENNY (Tasteless) PILLS.

6 Pills in Glass Tubes,  $\frac{1}{2}$ -gross Cards .. .. .

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Black Tests, fitted complete with Shield, Union, and Cord, on  $\frac{1}{2}$  gross Cards at 7/-; this is a good line, and sells freely.

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With Wool complete,  $\frac{1}{2}$ -gross cards .. .. . Per gross 5/6

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On  $\frac{1}{2}$ -gross Cards .. .. . 5/6

### \*WORM CAKES (Gingerbread).

As supplied to the largest houses in London. Per lb

1-lb. tin (tins free), 60 to the lb. .. .. . 1/2

$\frac{1}{2}$ -gross tins .. .. . Per gross 4/6

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Taylor, A. J., & Co. (Arabic, & Co.)

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Maw, S., Son, & Thompson  
Sprone, Co., The  
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Raines & Co.  
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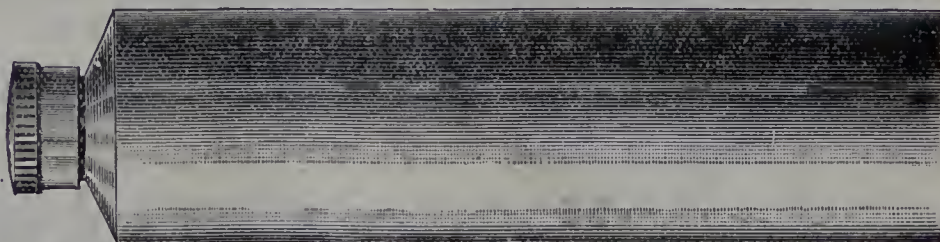
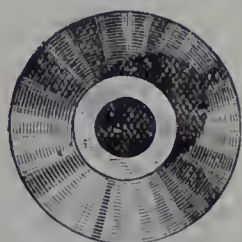
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[3]

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Preserves and gives a brilliant polish to the Nails, and prevents Hangnails, &c. .... 1/6 .. 10/6

### CLEANSING FLUID.

Instantly removes all stains from the surface and underneath the Nails ..... 2/6 .. 18/-

### FACE AND HANDS LOTION.

Softens the Skin and removes all discoloration .... 4/6 .. 33/-

### EMERY BOARDS.

For bevelling the rough edges of the Nails after use of the file ..... per box 1/- .. 7/-

### ORANGE WOOD STICKS.

A valuable novelty introduced in Dr. Paul's system of Manicure to apply the "Cleansing Fluid" under the free margin of Nails, and thus avoid the danger of scratching with steel instruments, 7/- per doz. bundles.

**CAUTION!**—Dr. Paul's Specialities can be obtained at all first-class Perfumers' and Chemists', but many imitations are offered at inferior Stores

WHOLESALE AGENTS:

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# ORIZA-PERFUMES

IN LIQUID AND SOLIDIFIED FORM OF L. LEGRAND, Specially Appointed Furnisher to the Court of Russia,

11 PLACE DE LA MADELEINE (Removed from 207 Rue St. Honoré), PARIS.

## UNRIVALLED SWEET PERFUMES

For all who like Delicate and Concentrated Scents.

LATEST CREATION:

**ORIZA-PERFUMES aux VIOLETTES du CZAR.**

Inventor and Solo Proprietor of the

**SOLIDIFIED ORIZA-PERFUMES**

(PATENTED),

12 different Scents in the form of Pastils and Tablets.

SOLE AGENTS FOR GREAT BRITAIN AND POSSESSIONS:

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CATALOGUE AND PRICE LIST FREE ON APPLICATION.



PRINCIPALLY RECOMMENDED PRODUCTS:

**CRÈME-ORIZA de NINON**: Beauty of the Complexion

**ORIZA-POWDER**: Delicious Poudre de Riz

**ESSENCE-ORIZA**: For the Handkerchief in all Perfumes

**ORIZA-LACTÉ**: Lotion for the Skin

**ORIZA-OIL**: Finest Perfumed Oil for the Hair

**ORIZA-TONICA**: Lotion for Cleaning the Hair

**ORIZA-SOAP**: The most Delicious for the Toilet

## VOGT'S FRUIT EXTRACTS,

from FRESH FRUIT. The best for Summer Drinks—Raspberry, Strawberry, Lemon, Orange, Cherry, Black Currant and Coffee, 5s. lb. net.

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—Four qualities, 8d., 10d., 1s., and 1s. 2d. lb. net.

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—Genuine Dalmatian from Closed Flowers, 1s. 3d. lb.; 100s. cwt. keg; special quality from Mountain Flowers, 1s. 7d. lb.

## VOGT'S OLD-FASHIONED SCENTS.

—The Popular Favourites. You should stock them—"The Scent of the Moorland," "The Scent of the Hayfields," "The Scent of the Lilies."

VOGT'S DRUGS, PERFUMERY, CHEMICALS, & ESSENTIAL OILS ARE ALWAYS GOOD VALUE.

PRICE  
LISTS  
FREE.

28

**G. VOGT & CO.,**

19 Laurence Pountney Lane, LONDON, E.C.

Telegrams  
"ALSACE"  
LONDON.

# A1 MENTHOL CONES.

## LEADING LINES.

|                               |            |
|-------------------------------|------------|
| 1d. Vase or Pedestal .. ..    | 6/6 gross. |
| 1d. Bottle .. ..              | 6/- "      |
| 2d. Pedestal, Varnished ..    | 14/- "     |
| 2d. Barrel .. ..              | 14/- "     |
| 3d. Draughtsman .. ..         | 18/- "     |
| 1d. and 2d., 3 dozen on Card. |            |
| 3d., 2 dozen on Card.         |            |

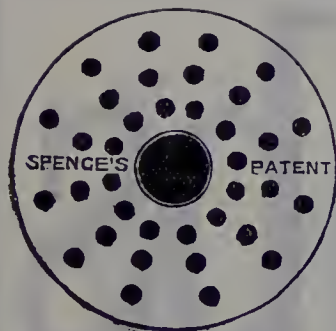
|                                     |          |                                    |          |
|-------------------------------------|----------|------------------------------------|----------|
| No. 8p. 6d. Pedestal Acorn, boxwood | 3/3 doz. | No. 101B. 4d. Boxwood Pedestal ..  | 2/6 doz. |
| " 111. 1/ " " " "                   | 5/6 "    | " 113R. 6d. " " Reversible ..      | 3/6 "    |
| " 11. 4d. " " " "                   | 2/3 "    | " 9CR. 1/ " " " "                  | 4/6 "    |
| " 109. 4d. " " polished willow      | 2/6 "    | " 117. 6d. Mooster, Willow ..      | 3/3 "    |
| " 40. 6d. Watch shape .. ..         | 3/3 "    | " 112. 6d. Draughtsman ..          | 3/3 "    |
| " 7B. 91. Barrel, printed boxwood   | 4/6 "    | " 14L. 1/ Pedestal, printed box .. | 6/3 "    |
| " 113P. 6d. Skittle " " "           | 3/3 "    | " 17P. 1/ Flat, printed ..         | 5/6 "    |
| " 1. 4d. S. C. Bottle .. ..         | 2/9 "    | " 5. 1/ S. C. Bottle ..            | 5/- "    |
| " 3. 6d " " " "                     | 3/6 "    | " 30. 4d. Glass Shade ..           | 2/- "    |
|                                     |          | " 31. 9d. " " " "                  | 5/- "    |

## IMPORTANT!

A. W. Shirley has been appointed Special Wholesale Agent for

## SPENCE'S PATENT SHIELDS

Now being sold by so many of the Trade. The advantages of these Shields are very great, as they are perforated, thus allowing free respiration. The natural organ for breathing is the nose, but babies are more often than not stopped from the power of breathing through it by colds, &c., and must of necessity breathe from the mouth, in which case this shield is a great boon, as it prevents suffocation.



Small size, 1 dozen on card, 6d. doz. 5/ gross.

Large " 1 " " 1/ " 10/ "

Assorted 1 " " 9d. " 7/6 "

### SOOTHERS

fitted  
with polished  
Seamless  
Teats.

Fitted with Spence's Patent Shields.

|                                                 |         |
|-------------------------------------------------|---------|
| No. 1. 3d. bone mount, with cord for neck .. .. | 2/ doz. |
| " 1A. 3d. rubber ring .. ..                     | 2/ "    |
| " 2. 4d. bone ring and mount ..                 | 2/6 "   |
| " 3. 6d. " " " "                                | 3/6 "   |
| " 4. 6d. rubber " fastened on cord              | 3/6 "   |

Wholesale Houses and Shippers supplied upon the best terms. All orders and inquiries should be forwarded direct to address below to ensure immediate and prompt attention.

## A NEW LINE.—OXIDISED METAL SCENT BOTTLE, WITH SPRINKLER. 4/ dozen. Wonderful Value.

## BE PREPARED FOR THE WINTER—IT IS CLOSE AT HAND!!

|                             |                                   |                          |                         |                                 |
|-----------------------------|-----------------------------------|--------------------------|-------------------------|---------------------------------|
| <b>A1 Anti-Catarh Salts</b> | <b>A1 Chilblain Tubes.</b>        | <b>A1 Winter Socks.</b>  | <b>A1 Menthol</b>       | <b>A1 Menthol &amp; Cocaine</b> |
| 6d. Watch .. .. 4/ doz.     | Attractively carded, 3/6 per doz. | 1 dozen on card.         | <b>Influenza Snuff.</b> | <b>Toothache Tubes.</b>         |
| 6d. Actinic green .. 3/9 "  |                                   | Assorted sizes, 3/8 doz. | 1/8 doz. on card.       | 3/6 doz. on card.               |
| 1/ " .. 6/6 "               |                                   |                          |                         |                                 |

**A1 6d. POCKET DRY INHALER.**—Simplicity itself, yet of immense value. 1 dozen on card. Filled with Camphor, 3/9 doz.; empty 3/ doz. Other medicaments can be readily introduced.

## SALVE POTS.

A neat squat wide-mouth cut jar, 4/ dozen. New and very saleable.

## MEDICATED CIGARETTES.

|                  |                   |
|------------------|-------------------|
| Stramonium .. .. | 1 doz. in box 5/6 |
| " .. ..          | 2 " " 9/          |
| Cubeb .. ..      | 1 " " 6/          |
| " .. ..          | 2 " " 10/         |

## A1 MENTHOL OINTMENT.

|                                 |                                          |
|---------------------------------|------------------------------------------|
| 71d. size, 5/9 doz. on card     | { without doubt a wonderful application. |
| 1/1 1/2 " in blue pots, 8/ doz. |                                          |

## A1 SPECIAL BRONCHIAL LOZENGE, Octagon shape.

1 lb. 2/6; 20 lbs. 2/2; 56 lbs. 2/; 112 lbs., 1/10 nett. Send for sample lb. and judge.

## CHEST PROTECTORS,

Scarlet Felt, Chamois Leather and Flannel, Pine Felt, and Pine Felt lined with Chamois. For prices, write for list.

The Season's Novelty is the  
**"FURFELT"**  
 Natural Grey Chest Protectors.

Single, double, and vest shape.  
 Double, No. 0 1 2 3 4 5 6  
 12/9 15/9 21/ 27/ 35/9 44/ 55/  
 Special discount for quantity.

## ETIENNE FRERES' PERFUMES.

In bulk, double, 7/-, triple, 10/- per 20 doz.

|                                  |            |
|----------------------------------|------------|
| 1d. tubes on card .. ..          | 8/- gross. |
| 2d. bottle on card or boxed ..   | 14/- "     |
| 6d. size, cut stopper and bottle | 4/- doz.   |
| 6d. " with sprinkler .. ..       | 3/9 "      |
| 6d. " corked and wrapped ..      | 3/6 "      |
| 6d. " plain, stoppered .. ..     | 3/9 "      |

|                                                         |              |
|---------------------------------------------------------|--------------|
| NEW LINE.                                               |              |
| 3d. size, fitted with sprinklers, carded or boxed .. .. | 2/- doz.     |
| " 1/- " Lundborg shape .. ..                            | 1 doz. 8/- " |
| " 1/6 " " " " " "                                       | 2 " 13/- "   |
| " 2/6 " " " " " "                                       | 4 " 24/- "   |

\* Chemist's own name on 3 doz. lots free of charge.

Attractive Easel Show-card to assist Sales.

**ARTHUR W. SHIRLEY, 55 FARRINGDON ROAD, LONDON, E.C.**

# SPECIAL AND HIGHLY IMPORTANT ANNOUNCEMENT TO THE TRADE.

---

WE have felt for a considerable period that the great mass of people who form the wage-class of Great Britain were in many instances debarred from using St. Jacobs Oil on account of the price being beyond their reach, and, although the sale of this ever popular remedy has been well maintained, despite the keen competition which the legitimate proprietors have been subjected to, and the unusual parade of the blustering, noisy quack, who latterly has, however, apparently departed to "other fields and



pastures new," leaving many mourning ones behind—it has been apparent to us that much of our extensive advertising was lost upon the working classes, who, although they had been convinced that St. Jacobs Oil was the remedy they required, were compelled to accept a substitute sold at a less price simply because they could not spare the money to procure what they wanted. To supply this want we have, after carefully studying the question, decided to place, after this date, a One-Shilling-and-Three-halfpenny size of St. Jacobs Oil on the market for Great Britain and Ireland. Our advertising is now being largely extended, calling the particular attention of the public to this smaller size of St. Jacobs Oil, which is already in the hands of the Wholesale Trade.

We are extremely anxious that every Chemist should place this small size in stock as early as possible, in order to supply the demand which is bound to follow our special announcements.

The Trade will please note that this is not like stocking a new remedy. The small size of St. Jacobs Oil will at once come into popular favour because it fills a long-felt want which the public will hasten to avail themselves of. While St. Jacobs Oil in the One-and-Three-halfpenny size can be obtained through the usual sources, we shall offer special inducements to those who purchase six dozen and upwards, assorted (in the 1s. 1½d. and 2s. 6d. sizes) in quantities of each to suit buyers. Price List and further particulars to be had on application to us.

# 1/1½ SIZE

Our advertising supplies for Chemists, consisting of our 48-page book, "A Souvenir" (with dealer's name and address printed thereon), together with Counter Wrappers, Show Cards, Panel Transparencies, Picture Cards in new designs, supplied free and carriage paid as heretofore

All communications will receive our most courteous and prompt attention, and orders will be executed the same day they are received.

---

**p.p. THE CHARLES A. VOGELER CO.**

**WILLIAM E. GEDDES (European Manager).**

*Telegraphic Address: "RUMATIX LONDON."*

*Telephone No. 6714.*

# S. MAW, SON & THOMPSON'S GREEN FLINT DISPENSING BOTTLES, &c.

Special Quotations for Large Quantities.

Fig. 97, FLAT.

Fig. 97a, FLAT.  
Rounded Corners.

Fig. 86, CHELTENHAM.  
Rounded Corners.  
Patent Stoppers.

For Prices in Crates, see Quarterly Price-Current, page 44.

Fig. 98, OVAL.

Fig. 202, OVAL,  
Flat one Side.

Fig. 203, FLAT.  
Round Ends.

Special Quotations for Large Quantities.

For White Flint and all other Bottles, see Quarterly Price-Current, pages 44 to 48.

|          |     | 2    | 3    | 4    | 6    | 8    | 10   | 12   | 16   | 20   | Ounce.           |
|----------|-----|------|------|------|------|------|------|------|------|------|------------------|
| Fig. 97  | ... | 10/- | 11/6 | 11/6 | 12/9 | 12/9 | 20/6 | 20/6 | 23/6 | 30/- | Best, per gross. |
| "        | ... | 7/9  | 8/6  | 8/6  | 10/- | 10/- | 13/3 | 14/9 | 20/- | 25/6 | 2nd, "           |
| Fig. 97a | ... | 10/- | 11/6 | 11/6 | 12/9 | 12/9 | 20/6 | 20/6 | 23/6 | 30/- | Best, "          |
| "        | ... | 8/-  | 9/-  | 9/-  | 10/6 | 10/6 | 14/3 | 15/9 | 21/6 | 26/6 | 2nd, "           |
| Fig. 98  | ... | 10/- | 11/6 | 11/6 | 12/9 | 12/9 | 20/6 | 20/6 | 23/6 | 30/- | Best, "          |
| "        | ... | 7/9  | 8/6  | 8/6  | 10/- | 10/- | 13/3 | 14/9 | 20/- | 25/6 | 2nd, "           |
| Fig. 202 | ... | ...  | ...  | 11/6 | 12/9 | 12/9 | ...  | ...  | ...  | ...  | Best, "          |
| Fig. 203 | ... | ...  | 11/6 | 11/6 | 12/9 | 12/9 | 20/6 | 20/6 | 23/6 | ...  | Best, "          |
| Fig. 86  | ... | ...  | ...  | ...  | 20/- | 20/- | ...  | ...  | ...  | ...  | Best, "          |

USUAL DISCOUNT.

## S. MAW, SON & THOMPSON, LONDON.

# FRIENDLY TALKS WITH THE TRADE.

We have nothing new to offer this week, but a review of some facts already well known to Chemists about compressed drugs may be of interest.

THEY ALL KNOW that the present demand for drugs in the compressed form is chiefly due to the large amount of time and money expended by us in their introduction, and also to the excellent quality of our goods.

THEY ALL KNOW that we first introduced quickly soluble and disintegrating "Tabloids" of Quinine, Charcoal, Compound Cathartics, Bismuth, Calomel, &c., &c., and that on June 9, 1888, the *British Medical Journal* stated as follows:—"Those 'Tabloids' destined for internal administration are less dense, and quickly disintegrate as Bismuth-Subnitrate, Manganese-Dioxide, Charcoal, &c." As for the "Tabloids" intended for local effect upon the throat, which are purposely compressed hard and dissolve slowly in the mouth, the *Lancet* says, July 23, 1881:—"The 'Tabloids' of compressed drugs are a great improvement upon unpalatable lozenges, which have so long done duty in the pharmacopœia." The Chlorate of Potash and Chlorate of Potash and Borax will be found useful in throat affections, while the Soda Mint or neutralising "Tabloids" will earn the gratitude of many a flatulent dyspeptic.

THEY ALL KNOW that Mr. H. M. Stanley, in his work "The Founding of the Congo Free State," 1886, says:—"If marching, drop a compressed 'Tabloid' of acidulous powder, as prepared by Burroughs, Wellcome & Co., in your cup of water." These acidulous "Tabloids" referred to are composed of a vegetable acid and a bicarbonate of an alkali, so combined as to yield a neutral solution after effervescence.

THEY ALL KNOW that the *British Medical Journal*, on January 25th, 1890, states:—"We have specially examined the Saccharin 'Tabloids' sent, and find that they are exactly what they are represented to be." The "Tabloids" of Antipyrin and Salicin were very convenient for the administration of these remedies, and those of Borax as an application for throat affections, and the Thirst "Tabloids" have a very pleasant acidulous taste, dissolving slowly in the mouth WITH CONTINUOUS EFFERVESCENCE.

THEY ALL KNOW that the Saccharin "Tabloids," as first manufactured by Burroughs, Wellcome & Co., were so prepared as to dissolve readily with effervescence, in consequence of the addition of Bicarbonate of Soda to the acid Saccharin.

Many Chemists assure us that their experience in dispensing our "Tabloids" convinces them that they are perfectly uniform and reliable, giving satisfaction alike to the physician and the patient, at the same time yielding a good margin of profit.

*Trial Samples, Formulæ, and Price Lists on application. Our goods are supplied by the Wholesale Trade.*

**BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.**

# "VASELINE"

(REGISTERED TRADE MARK)

NEW STYLE.

Each Tablet in Card Case.

# SOAP.

Sample Box  
Three Dozen Tablets,  
9/- Carriage Paid.

The Best Emollient in the World must be the  
Best Basis for Toilet Soap. 33/- PER GROSS TABLETS.

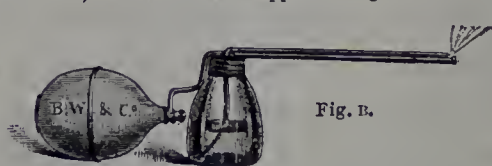
**CHESEBROUGH CO., 42 Holborn Viaduct, LONDON, E.C.**

Proprietors and Sole Makers of the "Vaseline Preparations."

"BLUE SEAL," our regular 6d. size, without Card Case, in Boxes of one gross, 32s. net.

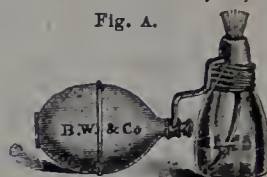
## THE B., W. & CO. OINTMENT ATOMISERS.

Of these, two varieties are supplied. Figure "A" is intended for the application of solutions of Essential Oils, Camphenes, Salol, Iodoform, &c., in



The B., W. & Co. Post-Nasal Ointment Atomiser.  
Price 2s. 6d. each.

Paroleine direct to the naso-pharyngeal mucous membrane. The bottle may be held in a horizontal position, and when pressure is made upon the bulb the patient takes with each inspiration a supply of the medicated oily vapour. This condenses on the pharynx and affords prompt and definite effect, the oily solution being more adherent than an aqueous solution. This instrument may be employed for the application of watery solutions if necessary. Figure "B" is fitted with a long conducting tube; by means of this the oily vapour can be conducted behind the soft palate to the posterior nares; or when the tube is reversed, which may be easily done by turning the screw, the vapour is conducted downwards on to the supra-laryngeal



The B., W. & Co. Naso-Pharyngeal Ointment Atomiser.  
Price 5s. 6d. each.

membrane. These instruments are prepared with scrupulous care, and do not readily get out of order. The parts may be detached and cleaned separately by the practitioner himself. The B., W. & Co. Ointment Atomiser (Naso-pharyngeal) is supplied complete to the Medical Profession at 5s. 6d. each; the Post-nasal Ointment Atomiser (B., W. & Co.) at 2s. 6d. each.

## PAROLEINE (a Water-white Paraffin Oil).

Is quite free from taste, odour, or colour. Is extensively employed as a solvent for such substances as Eucalyptia, Pinol, Menthol, Thymol, Creosote, Terebene, Salol, and Iodoform can be dissolved in the Oil in varying proportions. Supplied in bottles (4 oz.) at 8s. 6d. per dozen.

**BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.**

# ISO-BUTYL NITRIS.

Also GLASS CAPSULES of ISO-BUTYL NITRITE.

For use in Angina Pectoris, Asthma, and similar complaints, by Inhalation.

## Liquor Cascaræ Suavis.

(REGISTERED.)

An agreeable Aromatic Fluid Extract of *Cascara Sagrada*, possessing the full laxative and aperient properties of the bark.

## Sol. Æthyl Nitritis.

Containing 3 per cent. of Pure Nitrite of Ethyl, in Absolute Alcohol and Glycerine.

See paper by Professor LEECH on "The Comparative Effects of Spiritus Ætheris Nitrosi and Solution of Ethyl Nitrite," *Pharmaceutical Journal*, December 22, 1888.

## Spiritus Ætheris Nitrosi.

Guaranteed to contain the proportion of Nitrous Ether directed by the British Pharmacopœia.

## Æther Nitrosus and Sol. Ætheris Nitrosi.

Respectively 8 and 4 times the strength of the Spirit.

# JAMES WOOLLEY, SONS & CO.

Manufacturing Pharmaceutical Chemists,

## MANCHESTER.

Laboratories and Drug Mills, KNOWSLEY STREET, CHEETHAM.

QUOTATIONS AND PRICE LIST FORWARDED ON APPLICATION.

Application of Atomised Fluids to the Naso-Pharynx.



ESTABLISHED 1859.

PRINCIPAL OFFICE, 42 CANNON STREET, LONDON, E.C.

BRANCH OFFICES:

MELBOURNE AND SYDNEY, AUSTRALASIA.

Published every Saturday.

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Supplied only to persons connected with the Trade.

Post free to every country in the world. Single copies 4d. each.

Cheques or Postal Orders should be payable to EDWARD HALSE, and crossed MARTIN'S BANK (LIMITED).

For Australasian subscribers the subsidiary journal, THE CHEMIST AND DRUGGIST OF AUSTRALASIA, is included.

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### OUR SITUATIONS SUPPLEMENT

has become a well-known institution of the trade. We are glad to supply it free to anyone connected with the trade who wants an assistant, to any assistant who wants a situation, and to anyone who wants to buy or sell a business.

A copy of this supplement is issued with every copy of THE CHEMIST AND DRUGGIST, and, besides,

#### Several Hundreds of Copies

are distributed to applicants every week. It may be obtained by application at the office (42 Cannon Street, London, E.C., next door to the Mansion House Station), or is posted promptly on receipt of stamped addressed wrapper.

For the future this Supplement will be obtainable at the office

From 9 a.m. on Friday morning,

and applications for it by post will be responded to by early morning mails.

Advertisers in the Supplement are particularly requested to note that, in consequence of this arrangement, announcements for insertion in the current week's Supplement must reach this office (42 Cannon Street, London, E.C.)

Before 5 p.m. on Thursdays,

at the latest, and not, as heretofore, by first post on Friday mornings.

### SUMMARY.

OUR Paris correspondent reports the meeting of the Society of Pharmacy held there on Wednesday, and several other matters of pharmaceutical interest.

WE print a review of the Tyne Chemical Industry, which brings out some interesting facts showing how much processes and output have changed in recent years.

A FIRM of jam makers have failed to establish it as an offence under the Merchandise Marks Act to exhibit a bill of theirs in a shop window and to sell some one else's jam.

A BIRMINGHAM DOCTOR has felt it to be his duty to bring before the coroner a case of a chemist prescribing for a child. The chemist made his case worse by a too ingenious repudiation of having prescribed.

THE annual dinner of the Westminster College of Pharmacy was held in the Holborn Restaurant. About 170 persons were present. Mr. Wills claims to have passed 3,000 of the 13,000 chemists on the register.

THE examination in bankruptcy of Mr. Powell, the proprietor of "Moonseed Bitters," has proceeded a stage further. Mr. Powell has submitted a lengthy statement in writing, explaining his bill transactions with chemists.

IN our correspondence columns the discussion of chemists and specialties is continued: a manufacturer gives his views on the subject, and another correspondent calls for the enforcement of the poisons regulation in the sale of poisonous patents. The C.A.M.W.A.L. is taken to task for "cotting." We have additional information regarding Sir Morell Mackenzie's chemist, and several other interesting letters are published.

THE evening meeting at Bloomsbury Square on Wednesday was not so well attended as usual. Prizes were presented to the successful students, and Mr. Gainsford Bruce, Q.C., member for the Holborn Division, delivered an address, in which the work of the Research Laboratory was specially referred to; the history of the Society, the examination system, and the Council's attempts at legislation also being commented upon. We give a full report of the proceedings and a portrait of Mr. Bruce.

THE sale and use of methylated spirit takes up a fair share in this issue. In Stirling a doctor who had no methylated spirit licence has been fined 5*l.*; his assistant was neatly trapped into a sale of the spirits by an excise officer. Another "limb of the law" has wandered about Dondee, and has managed to pick up several veterinary preparations made with methylated spirit. Upon the use of the duty-free alcohol in veterinary medicine we devote an editorial note, and it will be seen that one of our subscribers has succeeded in establishing a precedent in regard to retailers of spirit being users.

THE Council of the Pharmaceutical Society of Great Britain met on Wednesday, and our report shows that there is not enough ready-money to go on with, so 1,000*l.* of Consols is to be sold out, which leaves only 1,000*l.* in "the Funds," remaining investments being in ground-rents. The approaching election of annuitants caused a long discussion, initiated by Mr. Hampson, who objects to aged people being put to the worry of a contested election. A suggestion fell from the President to make the Redwood scholarship a Research scholarship, and it is to be considered.

AT the annual meeting of the Pharmaceutical Society of Ireland on Tuesday, which is reported on pp. 544-6, Mr. W. F. Wells, Vice-president, delivered an address, in the course of which he commented upon the work of the year, which has been exceptionally heavy owing to the registration of persons under the Amendment Act. The society has trebled its numbers in two years, and is at present in a sound financial position, having spent nearly 700*l.* in the purchase of a house, and yet has about 500*l.* in cash. This statement, with other details, was submitted by the Treasurer. The result of the election of the new Council is all in favour of the pharmaceutical chemist party, nineteen of them and two druggists making up the board. A resolution was passed by the members recommending the Council to adopt this journal as "the official organ."

## English News.

**CHEMISTS AND WINE-LICENCES.**—A retailer's wine-licence has been granted to Mr. D. C. Cadman, chemist and druggist, of 2 Langton Terrace, Old Dover Road, Greenwich.

"**SWEET LAVENDER**" is being performed at Hull, and the theatre is perfumed nightly by lavender water gratuitously supplied by Messrs. Mason & Borth, the proprietors of the London and Counties Drug Company.

**BATH NEWS.**—Messrs. R. B. Cater & Co., proprietors of the large stores here, have opened a dispensing (at store prices) department, under the temporary management of Mr. Hillyer, who has been the proprietor of several large businesses in the city.

**A CHEMIST'S ACTION.**—Mr. David Evans, chemist, of Tonbridge Road, Maidstone, sued Mr. Frederick Hahn Dauchell, before the county court judge, on the 2nd inst., for 3*l.* 10*s.* money lent on an I.O.U. There was a counter-claim for 5*l.*, half of the expenses incurred by the defendant in patenting a remedy for influenza for plaintiff. The counter-claim was rejected by the judge, who gave a verdict for plaintiff, with costs.

**SALE OF SPIRITS OF NITRE AT SOUTHAMPTON.**—We understand that several summonses taken out against chemists at Southampton for the sale of spirits of nitre alleged to have been not of the nature, substance, and quality of the article demanded, have been withdrawn. It is believed that the article asked for was sweet spirits of nitre, that the analyst's certificate referred to spirits of nitrous ether, and that the prosecutors have discovered the weakness of their case in this respect.

**DRUG CONTRACTS.**—For the fourth time Messrs. Corbyn, Stacey & Co., have secured the drug contract to the Plymouth Board of Guardians.—The Dartford Guardians have appointed Messrs. Wilson & Botwood, chemists, of Hythe Street, and Spital Street, Dartford, to supply cod-liver oil, quinine, &c., to the union workhouse, as per the medical officer's orders.—The authorities at the Gravesend Union Workhouse have appointed Mr. C. R. Sharman, chemist and druggist, of Gravesend, to supply the articles required connected with his business for the ensuing term.

**THE OIL TRADE AND THE MANCHESTER ELECTION.**—In regard to the Inflammable Liquids Bill, Sir James Fergusson has stated that the representations made to him by certain persons engaged in the retail trade in Manchester that the restrictions were excessive and would seriously affect their business, were conveyed to the Home Secretary, and similar representations were made by other members. The result was that the Bill was not proceeded with, and no doubt, if a measure is thought necessary, the experience gained will prevent the errors in the former Bill being again committed.

**SHEFFIELD PHARMACEUTICAL AND CHEMICAL SOCIETY.**—The first meeting of the newly-elected council was held on Monday, when the following gentlemen were elected officers for the ensuing year:—President, Mr. C. D. Morrison; vice-presidents, Messrs. J. Humphrey and J. F. Eardley; hon. secretary, Mr. Robert Watts; treasurer, Mr. G. T. W. Newsholme; librarian, Mr. J. Austen. The report read at the annual meeting held last Friday showed that the society and its school were in a highly satisfactory condition, and that the efforts made in providing pharmaceutical education are appreciated by the junior members of the trade.

**PURCHASING A PATENT DISINFECTOR.**—The Camberwell Vestry, at its fortnightly meeting, received a report from the Sewers and Sanitary Committee stating that a sub-committee had visited the premises of Messrs. Goddard, Massey & Warner at Leeds, where they had seen the new patent disinfector at work, and they recommended that one should be purchased at a cost of 24*l.*, which sum was to include fixing. The recommendation was agreed to. Some discussion then took place in connection with the cost of the committee's travelling expenses; but ultimately it was agreed to pay 13*l.* 17*s.* 11*d.* for railway fares, and 2*l.* 5*s.* 10*d.* for refreshments.

**COMMITTAL OF A CHEMIST.**—In the Westminster County Court on Tuesday the case of Ede v. Stevenson came before Judge Bayley upon a judgment summons, the defendant being described as a chemist, of Basinghall Street. His Honour said the defendant had written to him on the subject. There would be an order of 10*s.* a month. Plaintiff's representative said nothing would be got without a committal. There had been eight or ten executions against the defendant, and the debt had now been going on since 1825. The defendant was in precisely the same position as then, and he asked for a committal order. His Honour eventually made an order of committal, suspending it for a month.

**NO DRUG ADULTERATION IN MANCHESTER.**—Mr. C. Estcourt, public analyst for Manchester, in his annual report just issued, states that 14 samples of drugs were obtained during the year, and that not one of them was found to be adulterated. He remarks that 29 samples of soda water which were taken proved to be genuine, but 14 contained dissolved lead in quantities varying from  $\frac{1}{20}$  to  $\frac{1}{2}$  grain per gallon; 7 samples of lemonade contained no metallic impurity, but 34 contained dissolved lead in quantities varying from  $\frac{1}{20}$  to 1 grain per gallon. "The manufacturers of all the samples of waters found to contain lead had been communicated with, and all had promised that defects in apparatus or materials should be remedied." Five samples of tartaric acid which were taken contained only the faintest trace of lead per cent., and the same observation applies to one sample of citric acid.

**BIRMINGHAM NEWS.**—Our Birmingham correspondent sends the following items of intelligence:—Sir James Sawyer has accepted the invitation of the M.C.C.A. Council to deliver an address to the members at the inaugural sessional meeting, to be held during the month of October, probably at the Grand Hotel, which has recently undergone extensive alterations.—Among the thirty aspirants to the medical career who have entered at Queen's College were several pharmacists' sons, and a few pharmacists themselves, whose businesses are under managers.—During the brief interval of the coronership the many bodies over which inquests were to be held have been preserved by the usual pickling fluid until a temporary coroner is appointed.—Mr. G. Thonger, pharmaceutical chemist, of Harborne, is a candidate for municipal honours as Member of the City Council for the Harborne district, of the recently formed Greater Birmingham.—Mr. W. B. Featherstone, F.C.S., who for the past twenty-two years has held the post of director of the pharmaceutical and chemical laboratory of Southall & Co., is about to leave that firm, much to the regret of many of his colleagues.

**CHEMISTS' ASSISTANTS' ASSOCIATION.**—In the circular which the council of the association, meeting at 103 Great Russell Street, W.C., have sent out to the members, it is stated that the association will revert to the old hour of meeting—8.30 P.M. on Thursdays, the chair to be taken at 9 P.M. This winter the council begin to provide refreshments at all the meetings—between 8.30 and 9 at ordinary meetings, and during the interval at musical evenings. In the first quarter there will be two of the latter—one on October 15, and another on December 17, the *conversazione* falling on November 19. The following is the programme of papers:—October 22, "Some Pathology for the Pharmacist," by J. W. Stainer; prize essay, by E. B. Sherlock; October 29, "B.P. Standards of Purity, Drugs and Chemicals," by T. A. Ellwood, F.C.S., A.I.C.; November 5, short papers by members; November 12, discussion, "The Importation of Foreign Chemicals," opened by J. C. Umuey; November 26, paper, "Drugs and Preparations of Use in Dental Practice," by W. Rushton, L.D.S.; December 3, paper by A. H. Allen, F.I.C., F.C.S.; December 10, "Floral Formulas and Floral Diagrams," by E. B. Sherlock.

**TAKING PREMISES.**—On October 2, at the Maidstone County Court, Mr. Wm. Bodkin, of Maidstone, sued Mr. Walter Frederick Russell, of 367 Wandsworth Road, Clapham, for the sum of 26*l.* 16*s.*, being the rent of a shop to be opened as a chemist's in High Street, Maidstone. For the plaintiff, it was stated that after the defendant had corresponded with plaintiff with a view to taking the premises, an agreement was come to whereby defendant was to have the premises for 8*s.* per week, the tenancy to commence on

April 22, but if defendant did certain alterations which were needed to the shop the tenancy was to date from May 11. Subsequently defendant withdrew from the agreement, and refused to give plaintiff any compensation. Mr. Eldridge, for the defendant, contended that there was no contract. In the first place, the rent was to be paid from May 11, but was altered to April 22 providing defendant did not do certain alterations. The judge held that there was a concluding agreement, and even if plaintiff had proposed other terms the defendant had not accepted them, but had refused all. He, however, thought the contention of Mr. Eldridge that plaintiff could only claim five weeks' rent held good, and there would be judgment for 2*l.* and costs.

**CHEMIST AND DOCTOR.**—The new Birmingham Coroner, Mr. Ansell, held an inquest on Monday respecting the death of Albert George Spruce, an infant whose parents live in Auckland Terrace. The child had been unwell for some time, and the mother took him to Mr. Williams, chemist, Camp Hill, who gave her some medicine and powders. As the child did not improve she took him to Mr. Fitzpatrick, surgeon, Moseley Road. Witness showed him the medicine that Mr. Williams had given, and he said, "It was not fit for the child." Mr. Fitzpatrick now gave evidence, and said when he saw the deceased on Tuesday he had an acute attack of bronchitis, and death was due to that cause. On examining the medicine given by Mr. Williams, he came to the conclusion that it contained a preparation of opium. Mr. Williams, the chemist, was present, and he asked Mr. Fitzpatrick how he could tell from the very small drop that was in the bottle that it contained a preparation of opium. Mr. Fitzpatrick said if Mr. Williams had undertaken to prescribe he should have given instructions as to keeping the child warm and using warm fomentations. The Coroner: Do you suggest that the medicine given was improper? Mr. Fitzpatrick: Certainly, if it contained opium; it would be the worst possible medicine. It requires the greatest skill of a physician to say when to prescribe opium to children. The Coroner: Do you go so far as to suggest that the medicine was given in such a way as to accelerate death? Witness: I would not say that, but it would not be proper to prescribe that. It would accelerate the symptoms. The Coroner: You would not prescribe opium? Witness: No, not in bronchitis especially. It is fatal to prescribe opium to children with bronchitis, if it is continued. The Coroner: I want to know whether the medicine supplied by Mr. Williams would cut off the last chance of recovery? Witness: When the child was brought to me the lungs were in such a state as to preclude all hope of recovery. The Coroner said it was a serious reflection to make on Mr. Williams to say that the giving of opium was fatal to the child. Mr. Fitzpatrick said that years ago he had a similar case brought under his notice, and he had the greatest difficulty in bringing the child round from a comatose state. The child recovered, however, and he took no notice; but now another opportunity occurred, and he thought it his duty to the public to bring the case before the coroner. Mr. Williams availed himself of an opportunity given him by the coroner to go into the witness-box, and he said the medicine contained: Pure nitrate of potash, 16 gr.; sweet spirit of nitre, 1 dr.; liquor ammoniæ acetatis 1 dr.; antimonial wine, 1½ dr.; paregoric elixir, ¾ dr.; syrup of squills, 2 dr.; simple syrup, 6 dr.; add water to 2 oz. The dose was one teaspoonful every two hours. It was a physician's prescription, and was very much prescribed by medical men. Mr. Fitzpatrick: Paregoric is a preparation of opium. One minim of paregoric given to a child in the state of the deceased would be sufficient to kill it. The Coroner: Can you say the giving of the medicine cut off the chance of recovery or accelerated death? Mr. Fitzpatrick: I am not prepared to say that. Mr. Williams said the child was very delicate and suffering from bronchial catarrh. If one drop of paregoric would have killed the child how did it happen that it had ten doses from Wednesday to Saturday and was so much better? The Coroner: It seems to me that you are guilty of the irregularity of prescribing; therein you do the mischief. Witness: I do not prescribe. I simply judge of the condition of the child, and say this is such medicine as a physician would prescribe and make it up. I am not responsible for the prescription. The Coroner: I am not going to let you go into a long dissertation as to whether it is right or not. All we are concerned with is whether the

child's chance of recovery was interfered with. It is a question for the medical profession and yourself to settle as to whether you prescribe; we have nothing to do with that, but I should think it was the duty of a doctor rather than a chemist. Addressing the jury, Mr. Ansell said there did not seem to be any allegation affecting Mr. Williams that they could take notice of, and a verdict of "Death from natural causes" was returned.

### SCOTCH NEWS.

IT is rumoured that a chemist, formerly apprentice with Mr. A. B. Anderson, has rented a shop in Hilltown, Dundee, and intends opening it shortly. Another doctor is also to start in the East-end. A year or two ago there were only three in that quarter; now there are nine.

**THE USE OF METHYLATED SPIRITS.**—Excise officers have been visiting the chemists' shops at Dundee in search of methylated tinctures, and purchases have been made of a number of samples of Friar's balsam, tinct. arnica, and tinct. iodine. "A colic mixture for a draught horse" was also asked for in several instances. The purchases have been forwarded to Somerset House for analysis.

**NEW CONVALESCENT HOME FOR GLASGOW.**—A Glasgow lady, Miss Marjory Shanks Schaw, 26 Park Circus, has set aside 40,000*l.* for the purpose of erecting, equipping, and, so far as possible, endowing a convalescent home in connection with the Glasgow Royal Infirmary, to be called the Schaw Convalescent Home, in memory of her late brother, Mr. Archibald Shanks Schaw, who was a well-known Glasgow merchant.

**A DISORDERLY VISITOR.**—On Saturday last a miner named George Grant entered the drug-shop of Dr. Barras, the medical officer for the burgh of Govan, and demanded parochial relief. The doctor gave him the address of the inspector of poor, but Grant said that would not do; "he would just smash the shop-window, and get lodgings in the lock-up." Dr. Barras told him that he did not require to trouble himself, as he could get him put into the police office without his having to damage other people's property. Going to the door the doctor called in the police, and gave his visitor into custody. At the police-court on Monday Grant was fined half a guinea, with the alternative of a week's imprisonment, for being disorderly in the doctor's shop.

**DOCTOR AND DISPENSARY FOR GARELOCHHEAD.**—Residents at the Clyde watering-places are, as a rule, fairly well off as regards medical aid in cases of illness, both doctors and druggists being sufficiently numerous and convenient in most of the coast towns. There are, however, some exceptions to this, especially in villages where the normal population is comparatively small and somewhat scattered. Up till a fortnight ago Garelochhead—a fair-sized village at the head of the Gareloch, possessing a couple of churches, a telegraph office, an hotel, a public-house, and a number of shops—was one of those exceptions. Neither doctor nor chemist had ventured to commence practice there. Dr. Y. Harris has now stepped into the breach, and opened a dispensary for the sale of drugs about a fortnight ago. In the summer months Garelochhead is a favourite holiday resort of Glasgow people, but hitherto neither doctor nor medicine could be obtained nearer than from Helensburgh, eight miles away.

**SALE OF METHYLATED SPIRITS WITHOUT A LICENCE.**—At a Justice of Peace Court held at Stirling on Monday, Dr. Fraser, Kilsyth, was charged with having sold two gills of methylated spirits without being duly licensed. The full penalty for the offence is 50*l.* Mr. Archibald, solicitor, Stirling, who appeared for Dr. Fraser, said the Excise officer visited the shop, and had a conversation with an assistant about the efficacy of methylated spirits and camphor in the treatment of sprains. A preparation for this purpose was made up, and the officer got it. He then asked for two gills of the methylated spirits by itself, and was supplied. All this was done in the absence of Dr. Fraser, who knew nothing about it until communicated with by the Crown authorities. For the prosecution, it was pointed out that the sale of methylated spirits had increased so much that

special instructions were issued to test each chemist as to sale. The liquid was being used as a haveraga, and two-pennyworth of it, the prosecutor stated, would make a person drunk for a week. The hench imposed a fine of 5*l.*, including expenses.

**DUNDEE CHEMISTS' ASSISTANTS' ASSOCIATION**—Mr. Thomas Maben, F.C.S., Hawick, vice-chairman of the executive of the North British Branch, will deliver the inaugural address on Thursday next in the Giffillan Memorial Hall. Among the papers promised for the session are the following:—"Chemistry and Disease," by Mr. J. B. Mason, F.C.S.; "Glimpses of Pharmacy in the United States," by Mr. T. J. Keenan, New York; "First Treatment of Wounds," by Dr. Buist; "The Manufacture of Lanoline," by Mr. James A. Kinnear; "Orchids," by Mr. William Mair; the first half of the session to conclude with a "Christmas social." The second half will be opened with a New Year's address entitled "Young Pharmacists and their Work," by Mr. Peter MacEwan, F.C.S., London; "A Night among Seaweed," by Mr. James Jack, F.L.S., Arbroath; "Physiology as a Study for Chemists," by Mr. William G. Smith, B.Sc.; "The Manufacture of Carbolic Acid," by Mr. C. T. Duncan; "The Life and Times of Humphrey Davy," by Mr. William Ramsay; "Chemists' Specialities," by Mr. George Little; "First Aids in Dentistry," by Mr. David M. Small, L.D.S., R.C.S. Eng.; and Mr. W. L. Howie, F.C.S., has promised an illustrated lecture entitled "To Ober-Ammergau and back in 1890." An attractive prize scheme is also announced. Further particulars may be obtained from the secretary, Mr. William Mair, 3 Nairne Place, Seafeld Road.

**THE SALE OF UNCLAIMED CORPSES IN GLASGOW**—The City Parochial Board of Glasgow met on Tuesday, and reviewed their previous decision as to the disposal of the bodies of unclaimed paupers who die in the poorhouse. The minutes contained the following:—"That no more removals of bodies be allowed meantime to take place from the poorhouse to Mr. Kennedy's premises for anatomical purposes, but that every body be removed to Sandymount Cemetery, and regularly interred, the governor being instructed to see that this is strictly carried out." There seemed to be a general desire on the part of the meeting to reject this clause. Mr. Caldwell said that the resolution was come to when the committee was in a state of panic, and therefore it would be injudicious to pass it now. Dr. Lapraik moved—"That the paragraph be not approved, and that unclaimed bodies be disposed of in strict conformity with the provisions of the Anatomy Act." He urged immediate action. At present they were acting in antagonism to that Act, which which was universally admitted to be a useful and wise one. Mr. Caldwell, while approving of the tone of Dr. Lapraik's speech, thought no harm would be done by remitting the matter back to the committee for further consideration. The schools would get their supplies all right, he thought, during the interval. Dr. Lapraik again warned the board that even a month's delay would be serious. After some lively discussion, it was ultimately agreed to delete the clause from the minutes.

## Legal Report.

### THE MERCHANDISE MARKS ACT.

At the Clerkenwell Police-court, on Friday, before Mr. Horace Smith, William Spencer Ticehuss, of 102 Whitecross Street, grocer, was summoned for applying a false trade description to goods manufactured by Edward Pink, and using the notice taken from and bearing the name of Edward and Thomas Pink in a manner calculated to lead to the belief that the goods of Edward Pink were, in fact, manufactured by Edward and Thomas Pink.

Mr. Washington, who appeared for the complainants, said Messrs. Edward and Thomas Pink had sent out with their price-list a bill which stated that during a certain week they had sent out 750 tons of goods. The bill, which was headed "Facts," also stated that if the public wanted cheap jam they should buy that of Edward and Thomas Pink. One of these bills was seen in the window of defendant's shop; the window being filled with jams manufactured by Edward

Pink, a firm which had no connection with the complainants. One of the complainants' travellers asked the defendant to remove the bill, saying that the public were being deceived. Defendant said, "I shall refuse to remove the bill, and if the public are deceived it is their own fault." Subsequently, another person in the employ of the complainants called upon the defendant. He referred to the bill in the window, and asked for a pot of that jam which was being sold in such large quantities. Defendant said "All right," but served him with a pot of jam of the manufacture of Edward Pink.

Mr. Washington said his clients did not want to punish the defendant, and would be satisfied if he would undertake to remove the bill and not repeat the offence. Mr. Ingram, who defended, declined to accede to this offer. He contended that his client had only done what he had a right to do, and that proof must be given of the intention to mislead the public. In the present case there was absolutely no intention to mislead. His client had dealt with the Pinks for fifteen years, and when they dissolved partnership, about fifteen months ago, he took both the goods of Edward Pink and of Edward and Thomas Pink; and the defendant, who was called, said there were several pots of Edward and Thomas Pink's jam in the window, as well as that of Edward Pink's.

The magistrate dismissed the summons.

### SALE OF FOOD AND DRUGS ACT.—WARRANTY.

ON Friday, at the Clerkenwell Police Court, before Mr. Horace Smith, Messrs. Batby & Co., of 153 King's Cross Road, oilmen, were summoned under the Food and Drugs Act, at the instance of the St. Pancras Vestry, for selling pepper which was adulterated with rice-flour to the extent of fifty per cent. After evidence, the defendant's manager said the pepper was sold to customers in the same condition as when purchased, and produced a guarantee. Mr. Horace Smith said witness should have given notice to the Vestry that he had this guarantee. As he had not done so he would have to pay the costs, which amounted to 12*s.* 6*d.*—Walter Mills, of 225 Gray's Inn Road, oilman, &c., was summoned for selling pepper adulterated with ginger to the extent of fifteen per cent. This defendant also produced a guarantee, received from the firm from whom he purchased the pepper. Mr. Horace Smith said he thought that the firm who originally sold the pepper ought to be proceeded against. He must order the defendant to pay the costs, 12*s.* 6*d.*

## Personalities.

MR SEPTIMUS VAUGHAN MORGAN, one of the proprietors of this journal, is on a tour round the world, and may be addressed by firms or subscribers as follows:—From October 16 to October 22, Poste Restante, Malta; from October 29 to November 12, Poste Restante, Cairo; and afterwards, until further notice, Poste Restante, Bombay. For full itinerary, see this journal, October 3, 1891.

SIR RICHARD QUAIN, M.D., tells the following story against himself. He was attending the wife of an old patient, and at one of his visits the husband set him thinking by saying to Sir Richard, "I greatly appreciate the anxiety you feel for my poor wife, but do not let her see it again, for after you left the room she asked if you were the undertaker." As Sir Richard, or rather Dr. Quain, as he was then, rather prided himself on having a good bedside manner, he felt that he was being taken down a peg or two.

WE UNDERSTAND that the Madras Government have accepted the offer of Mr. D. Hooper, of Ootacamund, India, the Government quinologist, to edit and complete the great work on the Materia Medica of Southern India commenced by the late Dr. Mohideen Sheriff, of Madras. In our issue of April 11 last, in an obituary notice relative to the learned Indian pharmacologist and therapist, we stated that Dr. Mohideen Sheriff had been prevented by his last fatal illness from completing the work to which he had devoted the closing years of his life.

## Pharmaceutical Society of Great Britain.

### COUNCIL MEETING.

AFTER a two-months' interval, the Council met on Wednesday morning at 16 Bloomsbury Square, W.C. About half-past eleven Mr. Michael Curteighe, President, called the meeting to order. The Vice president's chair stood vacant for some time, but as soon as the minutes were disposed of, and elections and restorations gone through, the President said that Mr. Bottle had been present on the previous day, but he had to leave town. Meanwhile, he moved that the Treasurer (Mr. Hampson) should take the chair. We may say that the other councillors who were absent were Messrs. Greenish, Harrison, Schacht, and Southall. Before proceeding to take up the finance report, the President said he was desired by the son of the late Mr. John Barnard to convey to the Council the family's thanks for the vote of condolence.

### FINANCE REPORT.

This was read by the Secretary, each member having a printed copy in his hands. The state of matters which it showed was this:—On the general fund—that is the Society's account—there was a balance of 1,142*l.* 17*s.* 1*d.* on September 30, and now various items, altogether amounting to 2,096*l.* 11*s.* 4*d.* were recommended for payment. These included several quarters' salaries and annuities, rent, journal, and grants for current expenses in Edinburgh and London. To meet the demand the finance committee recommended that 1,000*l.* worth of 2½ per-cent. Consols should be disposed of. The benevolent fund showed a balance of 630*l.* 4*s.* 2*d.*, a few subscriptions and ground rents and dividends having been received since last meeting, and a legacy of 100*l.* and donation of 5*l.* had been added to the donation account. This enabled the committee to recommend an investment of 100*l.* of that.

The PRESIDENT, in moving the adoption of the report, commented generally upon the items in the report, stating that the legacy was from Mr. Davison, of York. In regard to the proposed sale of 1,000*l.* of Consols, he said that in the first six months of the year there had been paid about 1,000*l.* from current revenue on account of alterations in the old premises, and the committee now asked for power of attorney to sell out so much of the investments. As to the proposal in regard to the donation account, it was convenient and lucky, he said, that they should be in a position to invest these small sums in Consols now and then, for they had an arrangement with the Inland Revenue authorities whereby income tax had not to be paid on consols. As to investing donation money in ground rents, he said that they had scarcely enough at present (about 3,000*l.*) for that, and lately the rush by insurance companies, particularly the Prudential, for that kind of investment had made it difficult to get ground rents, and when they did get them they yielded just about 4 per cent.

Mr. WATT seconded the motion for the adoption of the report, which was agreed to.

### BENEVOLENT FUND.

Twelve applications for relief were considered. One was deferred for further consideration, four applications were not entertained, the name of one was placed on the list of candidates for annuities (with three others), and the remaining six got grants of 10*l.* each. The receipt of the legacy of 100*l.*, referred to above, was reported, and also the death, on September 9, of Mr. H. G. Mumbray, aged seventy years, who was elected an annuitant in 1889.

The committee, reporting on the annuity department, stated that last December there were forty-two persons receiving annuities, and six were elected, making forty-eight. Since then three have died, leaving forty-five on the list. The committee now recommended that six more should be elected on Thursday, December 3, and for these annuities there are nine applicants—two unsuccessful last year, and seven since added to the list.

Mr. HAMPSON moved the adoption of the report in a few sentences, Mr. ATKINS seconding the motion.

Mr. RICHARDSON said it was a pleasing feature of the

report that eight of the applicants were persons who had been connected with the Society and had subscribed to the benevolent fund. (Hear, hear.) He hoped that this state of things would continue, for there was a certain amount of satisfaction to be got out of the fact that the fund was of benefit to those who in their brighter days had assisted their poorer brethren.

### ELECTION OF ANNUITANTS.

Mr. HAMPSON then moved that six additional annuitants be elected on December 6. In doing so he said that the number they were to elect showed that the fund was prosperous, but he would have been glad if it had been more prosperous so that they could have been more generous, and have given more annuities. While he agreed that to add seven candidates to the list of two remaining from the last election, as the committee proposed, and thereby provide for an election, might draw greater attention to the benevolent fund, he questioned the expediency of putting so many old people to the worry of a contested election. He was not so well acquainted with sporting phrases as some of his colleagues perhaps were (laughter), but, as far as he knew, he thought that this election was a handicapped race. Before a race came off it was the custom to weigh the jockeys. They did not actually weigh their candidates, but they carried out the proceedings with all barbaric splendour, selected a large enough number of candidates to provide a contest, sent them off, and allowed them to scramble over the hurdles the best way they could. He deplored that spirit—deplored it particularly as their candidates were old people, and he trusted that subscribers would put an end to it by supporting the fund more liberally.

Mr. ATKINS commended the benevolent spirit of the treasurer which had prompted him to make these remarks, but his own feeling was that they could not get the body of subscribers to relegate election to the Council. People who provided the money always liked to have a say in the disposal of it. An example of that had occurred in his own town, where a committee of governors, with all testimonials before them, had selected a medical officer, but the recommendation of the committee was not accepted by the subscribers, who elected a man who was not considered the best. He would be extremely glad if the Council would see its way to employ part of the funds to furthering the election of aged persons into Homes, so that they might feel assured that they were well cared for. The letting of lodgings had been, within his own knowledge, a very disastrous thing this year, owing to the rainy season. It would be far better for those adults whom they assisted if they got into a genteel Home, and since they had used the funds to further the interests of children in this too, he thought they should do it also with older people. It would relieve them and the Council of a great deal of anxiety.

Mr. EVANS said he would be sorry if by taking the elective power from the subscribers they diminished the interest in the benevolent fund, for undoubtedly a great deal of interest was taken in it. He suggested that if members of Council, in their individual capacity, would take some trouble with the cases in which they were specially interested, they would get them elected. The President had spoken about investing donations in ground rents, but he hoped, in view of present-day ideas on the land question, that they would not be able to get any more ground rents.

Mr. RICHARDSON thought this matter regarding the election of annuitants was not new; it had been discussed before, and he thought that Mr. Hampson's word "barbaric" was rather harsh. They conducted the election in the best possible manner, without cost to the contributors or the candidates, and it would do a great deal of harm to the fund if they took away the votes from the subscribers. His experience was the same as Mr. Atkins's. He knew a hospital where the officers had been elected by a committee, and the result was that the subscriptions fell off 25 per cent. He did not think that was right, but it was the case. A great many independent people loved to take a part in these matters; old ladies liked to take some person up, write post-cards, and so on. What he regretted in their own case was that persons over seventy years of age should have to undergo the shock and worry of a contested election; but he thought that they made it as easy for them as was possible.

He supported Mr. Atkins in his remarks regarding homes, and hoped, now that pharmacists were taking greater interest in masonic matters, that they would more closely identify themselves as a council with the benevolent organisations of that great body.

Mr. HILLS strongly sympathised with Mr. Hampson's remarks, and although he thought they were not intended for immediate application, he trusted that the Council and the subscribers to the benevolent fund would yet see their way to do away with this source of worry to poor and aged people.

Mr. ALLEN, whilst sympathising with old people, could not see the question in the same light as Mr. Hampson and Mr. Hills. The day was so far advanced, and the present practice was so firmly rooted, that subscribers had come to look upon the vote as a return for their subscription. They could not get away from that fact. This was the age of advertising. Each candidate and a certain number of friends (they were poor candidates indeed who had no friends) canvass persistently, and begin early, and he thought that if they took the vote away the effect would be that canvassing would be concentrated on the Council. He confessed that he thought this would be highly objectionable, and he thought more of the Council than outside people.

Mr. GOSTLING sympathised with Mr. Hampson, and hoped that the time would come when the subscribers would trust the Council sufficiently to depute election to them. True benevolence did not need a vote in return for a subscription.

Mr. CROSS said that while few would not sympathise with Mr. Hampson, he thought they should congratulate themselves that they had so few remainants—only two from last year. The evil was not so great as might be supposed, and the people did not come forward without the hope of being elected some time.

Mr. MARTINDALE knew that in some institutions a dreadful canvass went on, but he did not think the case was so bad in the Pharmaceutical benevolent fund. At least, that was his experience.

Mr. HAMPSON, in reply, said that Mr. Atkins's and Mr. Richardson's cases were not parallel with his. They were dealing with strong healthy men. He referred to old people, some of them with a foot in the grave. Mr. Richardson objected to the word "barbaric." Well, he would give him another; he would substitute the word "un-Christian." (A feeble "Oh!" and impressive silence.) It was un-Christian, not supported by any ethical principle, to put these old people through such a contest. This was a question upon which they must go forward. It was not a question of depriving subscribers of a vote, for they could still have the power to elect a body entrusted to select annuitants.

The PRESIDENT said that all subscribers would appreciate Mr. Hampson's motives. If he were to paraphrase his remarks they amounted to this: "Double your subscriptions, and appoint a committee to select annuitants." He thought the evil was not so great in their case as in other charitable institutions. Owing to the judicious way in which the candidates were selected there were few remainants, and few had to pass a second year; indeed, the very fact of their failure drew attention to their circumstances, and members of Council managed to get them elected. He also wished to say that, unlike other charitable institutions, the money for annuities was largely derived from subscriptions, and not from invested funds. He remembered that, when it was proposed to make this alteration in the administration of the fund, how horrified Mr. Sandford (one of his predecessors in the chair) was, but the policy of trusting to the benevolence of the people had been fully justified. It was a case in which sound finance could be departed from with advantage. (Hear, hear.)

The motion was then passed.

#### "THE NEEDFUL."

It was agreed to pay each of the Bell scholars 15*l.*, the first moiety of their scholarship.

Mr. F. W. Branson, secretary of the Leeds Chemists' Association, applied for a grant of 20*l.* to the association to assist in defraying the cost of fitting up the library and

museum. The association does educational work in connection with Yorkshire College. Referred to the Library, &c. Committee.

#### THE IRRESPONSIBLE LETTER-WRITER.

The PRESIDENT said there was a correspondent, a registered chemist and druggist, sending communications broadcast over the country as secretary of a society to carry out the provisions of the Pharmacy Act. These letters and post-cards had been causing great alarm, and he read one of them. [Several of these have been published in this journal.] The letters were a stumbling-block to people who knew nothing of the writer, and it was his duty to say that there was no such committee, and that none but the Pharmaceutical Council had power to administer the Pharmacy Act. No attention should be paid to the letters. They seemed to show that the writer was labouring under a hallucination, and he was entitled to say that the name of the writer was G. W. Sargent. He had written to local and divisional secretaries, and had lately taken to writing to subscribers to the benevolent fund who were not chemists, and might not understand their meaning. He hoped, therefore, that anyone who got a letter would estimate it at its proper value. (Hear, hear.)

This statement was supplemented with remarks from Mr. Gostling and Mr. Cross.

#### ELECTION OF LOCAL SECRETARIES.

The PRESIDENT said that in the course of this month the election of local secretaries would take place. It would be remembered that formerly they were elected at the same time as the Council, but it had been thought advisable to change the date, and the effect of this had been to create greater interest in the election. He hoped that the country members on this occasion would use their power to vote, and perhaps the opportunity might be taken to call together meetings in the various districts in order to choose a suitable person for representing each district. It was a good thing, he said, for people to have a local man to move in pharmaceutical matters, such as the infringements of the Act, and for this position the local secretary was generally well qualified. Occasionally it might happen that the best men in the towns had so much to do that it was a question how far it was desirable for them to continue in office; and, if meetings were held, perhaps these older members would find others there to take their places. Local secretaries could do a great deal for the Society and for themselves, and he hoped that the present election would create widespread interest.

Mr. HAMPSON remarked that if local secretaries were not up to the mark the benevolent fund suffered.

The PRESIDENT said that was so; indeed the activity of the local secretaries was shown by the number of half-crowns and five shillings which they got for the Benevolent Fund.

#### REDWOOD SCHOLARSHIP.

The PRESIDENT said he wished to bring a proposal before the meeting. When the Redwood Scholarship was founded there was no research laboratory, but he believed he was right in saying that Professor Redwood's idea then was that the money which the fund provided would most appropriately be spent in research. Perhaps he had the same views still; at any rate, he (the President) thought it might be well to consider whether they could not so alter the examination as to make it suitable for those who were fit to go into the research laboratory. Many men from that and other schools would be glad to go into the laboratory for a time with the aid of the 25*l.*, and a great deal of good might be done by extending the conditions as he proposed. It was for the committee and Professor Redwood to consider the matter, and he accordingly moved that it should be remitted to the Library, &c. Committee.

This Mr. ATKINS seconded, and it was approved.

Mr. MARTINDALE remarking that the matter was of great importance for students who passed the Minor and Major that they should have an opportunity of devoting some time to the prosecution of chemistry.

This ended the business of the day, the Council going into committee to consider the General Purposes Committee's Report.

## EVENING MEETING.

Wednesday evening was the ladies' night, the time on which we are wont to meet half an hour later than evening meetings generally are. On this night there are reserved seats for Council, and the whole bay is sacred to professors and students. The table is laden with piles of books, and trim medal-cases, and a heap of certificates lies ready at the chairman's left hand. Everything was in perfect order before the President and Mr. Gainsford Bruce with a host of attending Councillors come in. But the benches were not quite so well filled as we have seen them. Mr. Carteighe was punctual. It was 8.32 when he came into the lecture theatre escorting Miss Bruce, and Mr. Bruce followed with Mrs. Carteighe. Business commenced at once.

## INTRODUCTORY.

Ladies and gentlemen, said the President, the first business is to ask the Dean of the School of Pharmacy, Professor Attfield, to report on the school as a whole during the past session. Then I shall present the prizes to the successful pupils. Succeeding that the report on the prizes presented by the Council to pharmaceutical chemists not necessarily connected with the school. Next will come a report on prizes in a department which the Pharmaceutical Society shares only, I believe, with the Apothecaries' Society. I referred to the collection of plants. The first part of the proceedings would therefore be local, and the second with those associated with the Society, and residing in any part of Great Britain. (Applause.)

## THE DEAN'S REPORT.

Professor ATTFIELD, in reporting upon the whole session of the school, said it was his privilege to report to them respecting the past session, which was the forty-ninth session of the School of Pharmacy. Seventy-seven students attended the society's school during the session. This was an average number. Thirty-nine students worked at all the subjects, the others being for the most part such pupils as preferred to spread their pharmaceutical studies over two or even three years.

For *Practical Chemistry* there were sixty-two entries. Exactly half that number were for the whole session, the other half being for shorter periods. Fifty of the entries were made at the commencement of the session, the other twelve subsequently. The average period of study per pupil was about four hours daily for nearly seven months. At the examination for prizes in April at the end of the winter session thirty-two students voluntarily competed, this being the largest number within his (the Dean's) experience as director of the laboratory. (Applause.) The highest prize for the winter course—the bronze medal—was won by Mr. W. B. Hoile, the Redwood scholar, and the two certificates were awarded to Messrs. H. Garnett and J. Dunning.

In July, at the end of the second, or advanced or major course in practical chemistry, sixteen students competed for the silver sessional medal, which was secured by Mr. H. Garnett, one of the Bell scholars. (Applause.) The three certificates were taken by Messrs. Hoile, Riches, and Lee.

Then Professor Dunstan reported that the work of the students in *Chemistry* had been entirely satisfactory. The two medals for the summer and winter course respectively were awarded—the bronze to Mr. Harrison and the silver medal to Mr. Garnett. The Redwood scholar, Mr. Hoile, obtained the second certificate in April and again in July; the first certificate of honour was awarded in April to Mr. Garnett, and at the end of the session three certificates of honour were awarded to Messrs. Harrison, Hoile, and Lee.

It was gratifying, said the Dean, to be able to add of both the Bell scholars that they had applied to the Research Committee of the Society for admission to the research laboratory, and had been admitted as workers during the present session. (Applause.)

In the department of *Botany*, Professor Green stated that the work was well sustained throughout both courses of lectures, and in the illustrative practical work the diligence of the students was quite satisfactory. (Applause.) At the end of the first course the bronze medal was awarded

to Mr. F. F. Riches, and certificates of honour to Messrs. Garnett and Harrison. The silver medal at the close of the session was gained by Mr. Garnett, and the three certificates of honour by Messrs. Riches, Harrison, and Lee.

Mr. Ince announced that a favourable account might be given of the work of students in *Practical Pharmacy and Dispensing*. Attention had been given during the past session in that department to certain details of arrangement intended to promote the convenience of the class. A new separate lecture-room had been provided, and it was hoped that much benefit would accrue from this enlarged and much needed accommodation. At the end of the first course the bronze medal was awarded to Mr. W. B. Hoile, who was also successful in obtaining the silver medal at the close of the session.

Mr. Greenish stated that the attendance at lectures on *Materia Medica* was extremely regular, and that the diligence and attention shown by the students was all that could be desired. The bronze medal for the first course was gained by Mr. Hoile, and at the end of the session Mr. Harrison succeeded, by a very small majority of marks, in taking the silver medal from his fellow-competitors. The attention and success which followed the microscopical portion of the work was highly gratifying, and warranted the increased facilities to be given during the next session in that branch of materia medica.

On behalf of his colleagues the Dean said they observed with satisfaction that the Council had appointed Mr. T. S. Dymond assistant lecturer in chemistry. Mr. Dymond was formerly a student in the school, and he had been for some years assistant professor of chemistry, as well as latterly demonstrator in the research laboratory. (Loud applause.)

The report (continued Professor ATTFIELD) would scarcely be complete without some reference to the jubilee of the school. (Applause.) Next October, 1892, the school would have completed fifty years of life. (Applause.) How that event should best be commemorated would be for the Council and the staff and students of the school to decide during the present session. The bond of union between old students already existed in the form of the School of Pharmacy Students' Association, the officers and members of which would find congenial work in piecing together such rolls and records of the school as the Council, the teachers, and students of the earlier decades might contribute. Possibly, too, the old student who now occupied the presidential chair—(loud applause)—that old student might be induced to deliver an address at that time commemorative of the occasion. The school extended far beyond its Bloomsbury walls. (Applause.) It was composed of students now located in every part of the Empire. Its tone and teaching had not only conferred advantages but had implanted responsibilities, and it was not too much to say that the result had been a success. It was quite obvious that a review of the life work of the school should seem to the professors and lecturers necessary at the end of fifty years, and he was empowered to say that they were prepared to organise whatever commemorative plan or plans might be selected. (Applause.)

Professor ATTFIELD then gave the names of the students, first coming Mr. James Dunning to take away his certificate of honour, then Mr. E. H. Lee for three, Mr. F. F. Riches following for one certificate and a medal, all these receiving so much applause that the President in a good-humoured style called upon the "gods" to allow him to have his share in honouring the favourites. This he said while Mr. E. F. Harrison, a Bell scholar, stood before him waiting to receive three certificates and two medals. The Redwood scholar was next called upon, and to Mr. W. B. Hoile the President said that he was glad that he had in his college year done so well to maintain the honour of Redwood in the school. Mr. Hoile took away three bronze and one silver medals and four certificates. There was one name, that of Jacob Bell, which would always be revered in that house, and next to that the name of Redwood would always be honoured. The general applause which that tribute to two great men evoked no sooner lulled than Mr. Henry Garnett was called up to receive three silver medals and three certificates. To him the President expressed the hope that he would do distinct service to pharmacy in the research laboratory. This for the nonce finished the school, and Professor Green was called upon to report on the

## HERBARIUM COMPETITION.

Mr. GREEN is a favourite, so it was a minute or two before the applause allowed him to proceed. He confined his remarks to saying that this was the last occasion of the competition on the old lines—viz., in which candidates were not limited to any number of plants. Under these conditions Mr. Clear had sent in a good collection. The competition was not a keen one, but, such as it was, Mr. Clear's herbarium was far and away the best, and deserved the medal, while those of Mr. Ashby and Mr. Dunning deserved certificates of honour. As to the future competitions, he explained that what was aimed at in limiting the number to 150 was to get collectors to be careful in selecting specimens to see that they showed what the plants really were. Some plants might flower in summer and fruit later on. A flowering specimen did not adequately represent such a plant. The specimen could not be typical unless it represented the plant throughout its whole life. In future the condition of herbaria in regard to these points of selection would be put foremost, and mere number would not suffice to give it merit. (Applause.)

Mr. Clear and Mr. Dunning then came up for their awards. To Mr. Clear, the President said that a past President of the Society used to say that the man who took the herbarium prize was the most industrious. It was Peter Squire who said that.

## PEREIRA MEDAL COMPETITION.

For all who enter for the Council Prizes Competition the Pereira medal is the attractive object. It is the highest honour in British pharmacy, and from Sanger, in 1861, to Garnett, in 1891, there are Pereira medallists who have done well in and for pharmacy.

The PRESIDENT briefly reported that the examination had been a good one, and Mr. Garnett took the Pereira medal and 5*l.* worth of books given by Mr. T. Hyde Hills. As indicating the bent of Mr. Garnett's mind, we name the books which he selected, and do the same for the others:—Wanklyn's "Water Analysis," Todhunter's "Trigonometry," Otto's "German Grammar," Dragendorff's "Plant Analysis," De Bary's "Comparative Anatomy of the Phanerogams and Ferns" and "Comparative Anatomy and Biology of the Fungi and Ferns," Sachs's "Physiology of Plants," Ostwald's "Outlines of General Chemistry," Berntsen's "Organische Chemie," Darwin's "Cross and Self-Fertilisation."

Mr. W. B. Hoile ("A good second horse," said the President) took the Council's silver medal, and with it the following books, value 3*l.*:—"National Dispensatory," Proctor's "Other Worlds Than Ours," Wanklyn's "Water Analysis," Abney's "Photography," Magnus's "Mechanics," Ganot's "Physics," Thorpe's "Inorganic Chemistry," and Watts' "Organic Chemistry."

Finally came the bronze medallist, Mr. E. F. Harrison, who, in addition to his medal, got the following books:—Babbage's "Logarithms," Allen's "Commercial Analysis," vol. iii., Dragendorff's "Plant Analysis," Todhunter's "Trigonometry" and "Algebra," and Ostwald's "General Chemistry."

## THE SCHOLARSHIP COMPETITION.

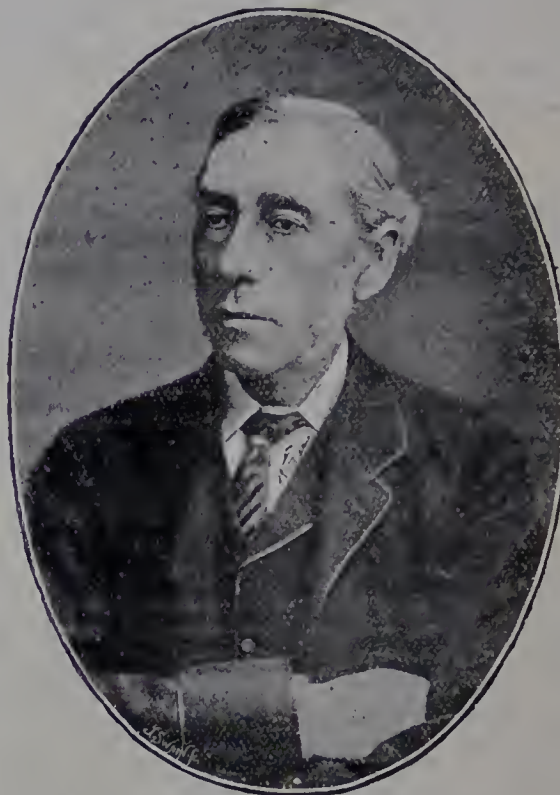
Mr. W. Murton Holmes, who, with Mr. Tanner, conducted the examination for the scholarships, reported that there were twenty-two candidates at thirteen centres—a number below the average, but the work was very good. The third candidate was unable to accept the Redwood scholarship, which, accordingly, was awarded to the one who came in fourth. After explaining the nature of the examination, Mr. Holmes said that all the candidates chose French as their modern language, and it was the weakest of the subjects. Owing to the nature of the passage given for translation, or some other cause, all the candidates gave it that "The true lover is the lover of himself." (Laughter.) Considering that the Bell scholarship was worth 70*l.*, and the Redwood 20*l.*, Mr. Holmes thought that more of the 1,300 who annually enter for the Preliminary Examination should compete for the scholarships. He thought that the reason why so few entered was because young lads were not taken as apprentices nowadays in order that they might be taught the trade, but because their labour was cheap. (Applause.) He concluded by naming the successful competitors:—Mr. H. A. D. Jowett and Mr. E. H. Gane, Bell scholars; and Mr.

F. E. Horrell, Redwood scholar. To the Bell scholars were given sets of text-books, provided by Mr. T. Hyde Hills. This ended the distribution of prizes, and at 9.15 the way was clear for the

## INTRODUCTORY SESSIONAL ADDRESS.

By MR. GAINSFORD BRUCE, D.C.L., Q.C., M.P.

Mr. BRUCE on rising was received with great applause. He said that his first words must be of congratulation to the students who had acquitted themselves so well in the past



*James W. Harrison*  
*Gainsford Bruce*

session, and to those who were now beginning he said that it was only by integrity and industry that progress in the affairs of life could be made. He continued:—

In 1863 your distinguished President was a Pereira medallist. I hope that some twenty-five years hence, or perhaps sooner, Mr. Garnett, and perhaps some other prize-men of to-day, may fill the same distinguished position which your President now occupies—(applause)—and may we all be there to see it! (Laughter and applause) And now may I add a word to those who have striven for prizes and have not been successful? You might be disappointed, but if the disappointment nerves you to renewed study and further effort it may prove to you a most fortunate experience. As it is the battle that makes the soldier, so it is determined effort that makes the man. One of the lessons in life is to learn to endure defeat, and to turn failure into success. I hope that before long means may be found to establish as a prize a research scholarship, so that those students who have proved themselves to be skilful chemists may have the opportunity of being able to continue their studies for a longer period, and at the same time to render assistance under the direction of your professor in the research laboratory. (Applause.)

I occupy to-day the place which on former occasion has been filled by distinguished men of science, by eminent members of the medical profession, by noted chemists and experienced pharmacists.

On this occasion you have honoured with an invitation to address you one who is a mere layman, who has no knowledge of the mysteries of prescribing or compounding, who is one of the public outside of you, and I hope I do not draw any unwarrantable inference when I regard this circumstance as an indication that you recognise the public interest as one of the objects which your society must ever keep prominently in view. Your charter has constituted your Society a public body; Parliament has conferred upon it public duties, and I am sure that you have no wish to limit and confine the scope of your action to the narrower concerns of trade or profession. Not that I conceive the interests of the public to be at variance or inconsistent with the obligation of watching jealously over the welfare of all those who follow your occupation, of defending their rights, and of seeking to advance their status. The two may well go hand in hand, the interests of your business and the interests of the public are, I believe, the same. A prudent and enlightened regard for the protection and welfare of your trade will tend to secure to the public the services of honourable, intelligent, and skilful pharmacists. The apothecary in penury, the occupier of a "needy shop" upon whose back "contempt and beggary hang" is not likely to minister honestly or efficiently to the public wants.

#### ADVANTAGES OF UNION.

Although it is with reference to the aspect of your work which concerns the public that I should chiefly insist, yet I cannot forbear saying a few words about the advantage which I conceive must always accrue to the members of a profession or trade from their uniting together with a view to advance their common interests, and to preserve amongst themselves a high standard of character and acquirements. The old maxim—*union is strength*—when applied to such societies, expresses a truth which not even a politician will venture to impugn. It is my good fortune to belong to a profession which has always been distinguished for the close union existing amongst its members, and I feel confident that the profession of the bar would not have attained its high position had it not been that its most eminent and distinguished members have always been in sympathy with and ready to extend their support to the most humble of their brethren. It is when men following a common pursuit recognise it as a bond of fellowship that they become actuated by a general desire to uphold and advance whatever is most excellent and worthy in the work in which they are engaged. The character and reputation of their calling become a common property, which all the members of the calling are interested in seeking to enhance, the youngest feels a pride in the success of the most experienced, and any unfortunate incident that may affect the fair fame of one is felt by all to be a reproach to the whole. The cultivation of this feeling tends to maintain a high standard of conduct, to extinguish ungenerous and unfair rivalry, and to extend whatever may enlarge the usefulness or add to the dignity of the general body.

#### GUILDS.

In old days in England it was the policy of those who administered our law to recognise the advantage of conferring upon the members of a trade powers to form themselves into a guild in order that they might better promote their business, and protect the public against bad materials and careless workmanship. Some of these old guilds still flourish, and are now rendering most valuable service in affording to young men seeking to join a craft means of efficient education in the numerous methods of working which science has discovered. History has come back upon itself, and society is endeavouring now in various ways to fulfil the example set us by our forefathers centuries ago. There is hardly a body of traders, or handicraftsmen, or labourers, and I may add of capitalists, who do not feel the advantage of uniting themselves together for the purpose of promoting the interests of their occupation. Some of these societies have no doubt been formed on very narrow lines, and their usefulness has often been interfered with by stupid political prejudices, and their energies have sometimes been

misdirected by ignorant or selfish leaders; but I think no candid person can deny that on the whole good has resulted from trade alliances, and wherever the action of the trade has been guided by wise and prudent counsels the public have been the gainers. But the usefulness of any such society must always, to a very large extent, depend upon the spirit in which its affairs are administered. I am glad to know that your society is directed by a council composed of men of great public spirit, guided by broad and enlightened principles, whose main object is to raise the standard of knowledge and skill of those engaged in pharmacy, and to secure every guarantee that the resources of science can afford for the genuineness and purity of the drugs supplied to the public.

#### NOT AN ANCIENT SOCIETY.

Your Society cannot claim an ancient history. It was established just fifty years ago, and its charter was granted in the year 1845. But you have made up for the absence of old renown by the activity and vigour with which you have in recent years prosecuted the objects for which you were incorporated. Your charter became necessary when the apothecaries established their right to practise as general medical practitioners. At one time the apothecaries and the grocers seem to have been incorporated in one company, but in the 13th year of James I. the apothecaries obtained a separate charter, and became a distinct body. In a well-known case—the *College of Physicians v. Rose*—the apothecaries established their right to attend patients and administer medicines to them, and in the year 1815 an Act was passed for regulating the practice of apothecaries throughout England and Wales. The apothecary after this soon ceased altogether to be a mere dispenser of medicine, and it became necessary to recognise the calling of a chemist and druggist as a separate business, and to confer upon the pharmaceutical chemist a legal status.

Your Society was established, according to the language of your charter, for the purpose of advancing chemistry and pharmacy and promoting a uniform system of education of those who should practise the same, and also for the protection of those who carry on the business of chemists and druggists. In the year 1852 an Act was passed for regulating the qualification of pharmaceutical chemists, and in 1868 another Act was passed, which made it unlawful for any person to keep open shop for retailing, dispensing, or compounding poisons unless he should be a pharmaceutical chemist or a chemist and druggist who should have been in business before the passing of the Act, or a person duly registered according to the provisions of the Act of 1852 or 1868. The practical result of these provisions is that, with the exception of those who were actually engaged as chemists and druggists prior to 1868, no one can dispense or sell poisons who has not satisfied your Boards of Examiners that he has competent experience, knowledge, and skill. As poisons form ingredients in many of the medicines in common use, it has become impracticable for anyone to carry on business as a chemist or druggist unless he is authorised to dispense poisons, so that the Legislature has in effect provided that those dispensing medicines shall be persons of education, and duly qualified for their work. The responsibility of testing the education and skill of candidates rests with your Society, and the bye-laws regulating the examinations are made by your Society pursuant to the powers conferred by Act of Parliament, and are subject to confirmation and approval by Her Majesty's Privy Council.

#### THE WEAKNESSES OF EXAMINATIONS.

The question of examinations offers a fertile theme for discussion. The examinations conducted by your Board of Examiners are, to a large extent, of a practical character, for the candidates are required to go through the actual work of making up medicines from prescriptions, and their knowledge of drugs is tested by specimens produced for their inspection and examination. But whatever care may be taken, and whatever precautions may be adopted, there are some subjects which must be included in your examination, with reference to which an examination alone cannot give certain or satisfactory results. I believe it to be quite impossible for the most careful examiners always to be able to distinguish between honestly-acquired permanent know-

ledge and that superficial and fleeting acquaintance with a subject which is the result of cramming or priming. It is true that before a candidate can be admitted to your examination he must produce a certificate of having been engaged for three years as an apprentice or student. But it is quite possible, and I am assured that it is not uncommon, for candidates to produce such certificates without ever having given their minds to the acquisition of any systematic knowledge of their business. It often happens that candidates allow the period of examination to draw near without securing the advantage of any proper training, and then, just at the last, by a great effort, they endeavour to stuff themselves with the requisite knowledge. In some cases they incur the mortification of failure; in other cases they succeed in imposing upon the examiners, and scrape through.

It is with a view of meeting the inconvenience thus arising, that your Society has proposed that its powers should be extended by Parliament, so as to allow of the examination being broken up into separate parts and to require periods of time to elapse between the separate parts. If this plan were adopted the student or apprentice would be forced to give systematic attention to his business at the commencement of his period of studentship, and he would be prevented putting off serious study until near the end of that period.

#### THE CURRICULUM AND THE BILL.

It is also proposed to require the attendance of students at courses of instruction in chemistry, botany, and materia medica. These proposals do not involve any addition to the severity of the examination. The object of them is simply to provide that the student should proceed by gradual steps, that he should be helped on his way during his student course, instead of being left to make a big jump at the end of it. All experience in education teaches us that it is no kindness to young men to leave them absolutely to their own resources during the period of their studentship, and that it is wise and right to save them from the results of thoughtless procrastination. The proposal to require students to attend courses of instruction in the branches of knowledge most necessary for the proper conduct of the business of a chemist and druggist, if carried out could not fail to be of assistance to them in qualifying them for their work. Some years ago the objection might have been raised that the apprentice in a chemist's shop in a country town might have far to go to attend such courses of instruction, and that the expenditure of time and money involved were far beyond his means. But now that opportunities for technical education have been established almost in every corner of the country, it is hard to believe that any such difficulty would arise. I cannot conceive it to be possible that while scientific lectures are being provided for the agriculturist, the mechanic and the carpenter, the chemist's pupil and assistant should be left without the means of that kind of instruction which his education and intelligence render him so apt to profit by, and which the nature of his calling renders it so necessary for him to obtain. If the proposals of your Society were to be adopted, and any difficulty were to arise in any remote place as to the means of acquiring such instruction, it would become the duty of your Society to take means, by the agency of the University Extension Scheme, or otherwise, to make provision to provide in the neighbourhood of the place the necessary lectures. Such an obligation I feel sure that your Society would readily recognise, because the large expenditure it has already incurred in establishing technical teaching of the very highest order in this institution affords the best proof of its willingness to devote its resources to the cause of education.

I have heard the objection raised to the proposal to make attendance at lectures compulsory, that it matters not in what manner a student acquires his knowledge, if he can pass the examination. But this objection is founded upon the assumption that an examination is an unerring test of competence, and that is just what I ventured to point out a few minutes ago I do not think it ever can be. An examination does, no doubt, serve to secure the rejection of the obviously incompetent; but, unless an examination is made so strict as to be oppressive to men of average memory and acquirements, it is but an uncertain test of efficiency. The

real place of an examination in the machinery of education is as an adjunct to other means. It is only by systematic teaching, combined with examination, that you can secure the acquirement of solid and lasting learning and an intelligent understanding of the reasons of things. You may, perhaps, be inclined to ask, Why is it that these proposals of your Council which have been embodied in a Bill which has been before Parliament for several successive sessions has not passed into law? The Bill of last session was introduced by Sir Henry Roscoe, Dr. Farquharson, Sir Trevor Lawrence, Sir Guyer Hunter, and Mr. H. S. King, members of Parliament of great influence, and some of them of high scientific repute, but in the pressure of business no opportunity occurred of discussing the proposals it contained. Where we have had, as we have during recent sessions, nearly the whole time of the House of Commons occupied in the discussion of measures of the highest public interest and importance, it is not possible to secure time for the consideration of measures of a minor character, unless the Government will take the responsibility of promoting them. I am not inclined to find much fault with the system. It has its disadvantages, but it has the enormous advantage of saving the House of Commons to a large extent from wasting time in the discussion of the thousand and one idle and frivolous nostrums of the vain and irrepressible private member.

I hope, however, that before long you will be able to gain the public ear through various public organs, that you will satisfy all impartial minds that the proposals of your Bill are not only for the advantage of chemists and druggists and their assistants and apprentices, but are also for the public good, and when that is generally recognised public opinion will force the matter upon the attention of Parliament, and you will find that speedy legislation will ensue.

#### THE RESEARCH LABORATORY.

I have left myself but little time to speak of the most interesting of the departments of your work—that carried out in your Research Laboratory. But this is a subject so technical in its character that I feel great difficulty in dealing with it, and still greater difficulty in dealing with it in a manner at all commensurate with its importance. At your recent jubilee meeting the Royal Society recognised “the successful exertions of the Pharmaceutical Society to promote the progress of a most important branch of natural science.” The Chemical Society congratulated your Society “not merely as having accomplished most valuable work in the past, but also on the fact that it has now recognised the need for and the importance of research by establishing on a permanent basis a laboratory for the investigation of problems of chemical pharmacology.” Such testimony from two of the great learned societies most competent to form an opinion of the nature of your investigations, affords perhaps the best evidence of the value and usefulness of the researches on which you are engaged. But I may add that a short time ago, when the President of the Medical Council, Sir Henry Acland, spoke in this place of the benefits to be derived from the institution of your Research Laboratory, the *Times* newspaper in a leading article pointed out the necessity, from a public point of view, for special research into the exact chemical constitution of drugs and alleged remedies, with a view to precisely fixing the constitution of alkaloids of acknowledged or of hypothetical value, and generally to supply to the experimental therapist and the physiological inquirer absolutely pure bodies of known chemical composition, whether existing in commerce or not. Perhaps the best testimony to the value and importance of the work done in your Research Laboratory is that distinguished men such as Professor Frankland, Professor Michael Foster, and Dr. Lauder Brunton are members of your Research Committee.

Still I do not feel quite content to leave the character of your work to be judged of by mere general statements coming even from such high authorities. The public mind is commonly better satisfied by the statement of specific results, and, therefore, I propose to indicate, although necessarily in a very imperfect way, some of the discoveries of great public benefit which have been made in your Research Laboratory.

#### SCOPOLA.

Henbane and belladonna are medicines which from very early times have been in general use, and more recently one

of their active principles, hyoscyamine, has been extensively employed in therapeutics. By investigations made in your Laboratory, it has been discovered that the root of the plant *Scopola carniolica* yields the same alkaloid in an almost pure form, and that hyoscyamine can be much more easily prepared from *Scopola carniolica* than from helladonna or henbane, because these plants contain other alkaloids from which hyoscyamine can only be separated by troublesome and expensive processes. It has also been discovered that a tincture of scopola can be used with advantage for nearly all the purposes for which helladonna is used.

#### SALICYLIC ACID.

You have directed very careful attention to a complete examination of what is known as the artificial salicylic acid of commerce. As the result of a series of very careful experiments you found that this acid prepared from carbolic acid was liable to be contaminated with cresotic acids of a hurtful and dangerous character, and a method was discovered by which pure salicylic acid could be obtained from the impure compound. Thus physicians who formerly had been driven to use salicylic acid derived from the oil of wintergreen, an expensive article, may now obtain the artificially-prepared acid in an absolutely pure state. As salicylic acid is largely used in medicine, and is often given in large and frequent doses, this discovery may be regarded as of great practical utility.

#### AMYL NITRITE.

The nitrite of amyl of the British Pharmacopœia is a medicine which is in frequent use on account of its remarkable effect upon blood-pressure. It has been subjected to careful examination in your Research Laboratory, and has been found to be a mixture of several compounds. It contains, amongst other things, a considerable proportion of iso-butyl nitrite, and this latter substance is found to exercise a much more powerful effect upon blood-pressure than the official amyl nitrite. So that of the amyl nitrite of the Pharmacopœia it may truly be said that itself is the least part of itself. It is like a lady over-adorned, "*Pars minima est ipsa puella sui.*" A method has been discovered by your Professor of Chemistry by which iso-butyl nitrite may be readily prepared in a perfectly pure state. In consequence of this most unexpected and valuable discovery respecting the action of iso-butyl nitrite, your investigations have been extended to a number of nitrites belonging to the same series. This work has involved a vast amount of very delicate and difficult manipulation, and the latest results—which are, I am told, highly interesting and important—will shortly be made public.

#### ACONITE.

One of the most important of the investigations now in progress is that concerning the aconite alkaloids. Although the *Aconitum Napellus*, or common monkshood, has been long and extensively used, little was known of the nature of its active constituents. But in your Research Laboratory aconitine has been prepared in a perfectly pure state, its physical and chemical properties have been fully described, and active progress is being made respecting the other alkaloids contained in the same plant and in other species of aconite. This has been recognised on all hands as an inquiry of the highest importance, and the Royal Society has made a grant of 150*l.* out of the Government Fund for scientific research towards the expense of this investigation.

#### THE DOUBLE CYANIDE.

As my time has nearly expired, I must be content to specify only one other instance in which your researches have proved to be of great service in medical practice. The valuable antiseptic properties of a substance prepared by precipitating a solution of cyanide of mercury and potassium with a solution of zinc sulphate was brought not long ago into notice by Sir Joseph Lister, F.R.S. A surgical dressing prepared with this material was found to be devoid of the irritating properties of mercuric cyanide, and superior to zinc cyanide in its antiseptic power. An intimate mixture of the two cyanides was found not to answer the purpose, because the cyanide of mercury is easily soluble, and on becoming dissolved exerted corrosive action. The substance obtained by precipitation had hitherto been regarded as a

double salt. But in practice it was found that the use of the dressing did not always give the same result, and the composition of the substance seemed to vary. It became, therefore, of great importance to ascertain the true chemical character of this substance, and to discover a method of preparing it so that it should constantly be of the same composition. This investigation was undertaken in your laboratory at the request of Sir Joseph Lister, and your professor of chemistry, Professor Dunstan, was able to demonstrate that the theory of an ordinary double salt could not be upheld, and he discovered a process by which the preparation could be made, containing a much larger and constant proportion of mercuric cyanide, and in such a condition of chemical or mechanical combination as not to be easily soluble.

#### PERORATION.

And now, Mr. President, ladies and gentlemen, it only remains for me to say that I trust that your Society will long continue to flourish, and that no consideration will induce you to relax the efforts you are making to advance the cause of science and to promote the welfare of those who practise your mystery. None know so well as you the truth of the saying of Friar Lawrence:—

O mickle is the powerful grace that lies  
In plants, herbs, stones, and their true qualities,  
For nought so vile that on the earth doth live,  
But to the earth some special grace doth give.

And yet it is strange that until you established your Research Laboratory how little had been done to investigate the active principle of herbs, even those that were known to have remedial properties. I am told that at the present time there are more than a hundred herbs at Kew that have been recently discovered, and are believed to possess medicinal virtue, yet until you are able by investigations in your laboratory to discover the special grace that each doth give, the science of medicine is not likely to derive any benefit from these botanical discoveries.

You may well feel that the labour before you seems to be without end, and so it is; but so must it be always in every department of the study of the great and inscrutable secrets of nature. It is but an indication of the dignity of your pursuit, and it should only lead you to be more earnest in the prosecution of all the learning appertaining to your art. Lord Bacon has said, "It is necessary that he that will know the properties and proceedings of matter should comprehend in his understanding the sum of all things which have been, which are, or which shall be." (Loud applause.)

#### VOTE OF THANKS.

Prof. H. E. ARMSTRONG, in rising, said he was satisfied the proposition he had to make to the meeting would be accepted with acclamation, and would require but very little advocacy from him. It was his privilege to propose that a most cordial vote of thanks be given to Mr. Gainsford Bruce for the very interesting and able address which he had delivered. He (the speaker) had had the opportunity on numerous previous occasions of listening to addresses from men occupying high positions, either in the scientific or medical world. They had spoken upon things familiar, and had delivered addresses of very deep interest to them; but yet he thought on the present occasion he had felt more satisfaction with the address than on any previous one, and for this reason. Those gentlemen had always been, so to speak, members of their own body or scientific fraternity. He thought, however, the feeling existed in this country that men of science formed, after all, but a very narrow section of the community, and that the aims and objects of pharmacists were but very slightly understood by the general public. The gentleman who had addressed them that evening, he believed, had no connection whatever with science, but he had given himself very great trouble to inform himself as to what was the nature of their work, and he had clearly stated the case in a very perfect manner. (Applause.) He (the speaker) thought the benefit was not so much on their side as on his, in the sense that he, having taken so deep an interest in their work, would be able to act as an interpreter, and would be able to speak with regard to the work done by the Pharmaceutical Society. (Applause.) If science was ever to exercise its proper effect in this country, as it did in Germany, it would

be through the genius of gentleman like the speaker that evening, who had been at pains to understand scientific work, and who would act as interpreters. They were deeply indebted to Mr. Gainsford Bruce, and he moved a hearty vote of thanks for the address. (Loud applause.)

Mr. GILES, in seconding the motion, said he thought the thanks were given by the meeting even before they were spoken. It was a little quizzical joke on the part of the President to give him the satisfaction of seconding the vote of thanks. The President might have thought he had discovered the missing link, and that he (Mr. Giles) might serve somehow to connect pharmacy and science with the bar. But the address they had heard showed that any such intervention was unnecessary. He was, however, much surprised to hear the facile way in which Mr. Gainsford Bruce discussed pharmacy and scientific matters. Mr. Bruce belonged to a profession which was *ex officio* learned, and *ex ipsâ causa* eloquent. He called to memory a phrase written by a Frenchman which had always struck him as being very apt. The writer had said that "all women were beautiful, but some were more beautiful than others." In that relation he would say that all counsel were eloquent, but some were more eloquent than others. He left it to the meeting to judge to which category Mr. Gainsford Bruce belonged. It gave him great pleasure to second the motion. (Loud applause.)

Mr. CARTEIGHE put the motion to the meeting. It was carried with acclamation, and Mr. BRUCE, in returning thanks to the audience for the kind way in which they had received the address, said he had taken pains to find out what the Society was doing, and with the assistance of the officers he had put together what he had said. No doubt the benefit arising was mainly to himself, for he felt sure that he had had greater pleasure in preparing the address than the meeting had in listening to it.

This concluded the proceedings, and those present adjourned for refreshments.

#### FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

**THE FRENCH COD-FISHERY**—The Dunkirk cod-fishing fleet has returned from the Northern Seas with a fairly good cargo. The seventy boats comprising the fleet contained 29,049 tons of cod and 2,486 barrels of cod liver oil, as against 21,375 tons last year and 37,215 tons in 1889. The best fishing this season was off the Faroe Islands.

**FRENCH PHARMACY IN EGYPT.**—A French journal, published at Cairo, reports that a meeting of pharmacists was held last week in Alexandria on the subject of the new regulations concerning pharmacists, and against which, as reported last week, the French Consul had successfully protested. Public feeling is said to be much agitated on the subject.

**THE STENCH-BULBS IN PARIS**—M. Riche has submitted to the Council of Public Hygiene an analysis of the contents of the stench-bulbs, to which attention has lately been drawn by their use at the representations of "Lohengrin" at the Opera, as mentioned last week. He cooled one of the bulbs and broke the point, no explosion or projection was produced. The liquid within he proved to be hydrosulphide of ammonia. Although the smallness of the bulbs, in M. Riche's opinion, precludes any danger of asphyxia, even in a small room, yet their utter uselessness and evidently mischievous purpose demands the suppression of their manufacture and sale.

**PHARMACEUTICAL SYNDICATE FOR SOUTHERN FRANCE.**—Some years ago, at a banquet at Nice, the Society of Pharmacists of that town came to an understanding with their Cannes *confrères* regarding the desirability of amalgamating all the societies of pharmacy of the department into one association. Nothing, however, was then decided definitely. The society of Cannes and environs, comprising Grasse, Le Cannet, Vallauris, and Antibes, has just addressed a circular to the Nice pharmacists pointing out the advantages of carrying the proposed union into effect. The departmental

society would possess a moral, legal, and pecuniary force which the separate societies in the various towns could never attain. "The Syndicate of the Alpes Maritimes" is suggested as the title of the proposed association.

**MINERAL-WATER TRADE-MARK LITIGATION.**—Messrs. Chancellerie & Co., mineral-water manufacturers, recently obtained, before the Correctional Court of the Department of the Seine, a decision inflicting heavy fines and imprisonment on two persons who had imitated their trade-mark "Eaux Bonnes," and sold mineral water thereby. The defendants appealed to the Court of Paris, which has reversed the judgment of the Seine tribunal, and condemns Messrs. Chancellerie & Co. to pay costs of both the action and appeal. This decision is based on the circumstance that the fraud was committed before the "Eaux Bonnes" trade-mark had been properly registered, so that proprietors of a natural mineral water must protect their trade-marks in the same way as a manufacturer is obliged to protect his. The Court of Paris also takes the somewhat peculiar view that the parties directly wronged were the pharmacists who bought the spurious mineral water, not Messrs. Chancellerie & Co., who, said the judge, could only have suffered indirectly by the defendants' fraud.

**PARIS SOCIETY OF PHARMACY.**—The opening meeting of the new session was held on October 7 at the Ecole de Pharmacie; but the thirty pharmacists who were grouped around the horse-shoe table had hardly staken off the holiday spirit, and the bright autumnal afternoon further ill-disposed the members for proceedings of a very tedious nature. The sitting was short, and did not extend over more than forty minutes. M. Schmidt, the archivist, read a report on the condition of the cupboard in which the society keeps, not its skeleton, but its archives. He unfolded a dismal tale of hack numbers in different series of various pharmaceutical journals of foreign countries that were missing. In spite of the suggestions, serious and humorous, of the members, he declared his inability to arrange or sort this collection unless suitable accommodation was provided. It was the general opinion of the meeting that a room could very well be spared in the Ecole de Pharmacie for a purpose so useful. It was suggested that steps should be taken to approach the authorities on the matter when the proper person returned from his holiday. Then followed the only real business of the meeting. This was the allocation of the various essays presented for competition to their respective sections. It was decided as follows:—Messrs. Collin, Ferrand, and Gallon were allotted to the section of natural science and pharmacy; Messrs. Boymond, Ledié, and Villiers to that of chemistry and physics.

**A DENTIST ASSASSINATED**—The latest sensational crime in Paris is an assassination which took place at Conrbevoie last week. M. Génisset, surgeon-dentist, called at a wine-shop at the above suburb of Paris, and asked for the address of the Commissioner of Police. He stated that he had a complaint to make against his former mistress, who was living with Surgeon-Major Breton, of the 89th regiment of the line, at 24 Avenue Marceau, just opposite. He had scarcely finished speaking when Breton himself rushed in, revolver in hand, and fired twice on the unfortunate dentist, who was mortally wounded, and died in a few minutes. The surgeon-major held back the people who pursued him with his smoking revolver, escaped to his own house, and thence across the fields into the country. Detectives and the police have made active search for the murderer, but he has managed to avoid arrest. Under date from Paris, he has addressed a letter to his colonel, stating that he was driven to the rash act by intolerable annoyance. It would appear that Génisset's affairs were in a most embarrassed condition, and that he was under the impression that his former mistress, Madame Raybaud, owed him a large sum of money for the rent of an apartment she never occupied. Hence he wrote insulting letters to Breton, with the terrible result above mentioned. It also appears that Dr. Breton had assisted Génisset when the dentist required the presence of a medical man during his professional duties. The assassin's brother-in-law, M. Brand, is a pharmacist holding a prominent position at the town of Brissac. This gentleman has telegraphed to the Chief of Police, saying he will do his utmost to trace the surgeon, and will endeavour to persuade him to give himself up to justice.

## Pharmaceutical Society of Ireland.

### ANNUAL MEETING.

ON Monday evening, October 5, the annual meeting of the members of this Society was held in their new and commodious house in Lower Mount Street. Amongst those present were:—Messrs. W. F. Wells, Vice-president; G. D. Beggs, T. W. Robinson, Professor Tichborne, W. J. Moore, E. M. Hodgson (treasurer), W. J. Baxter, Charles Evans, John Evans, R. Simpson, and W. H. Grindley, members of the Council, and also Messrs. W. J. McNeight, F. J. Newell, J. R. Middleton, R. J. Downes, J. R. Connolly, William N. Allen, John Burnett, John Smith, Thomas M. O'Connor, James H. Hardy, John T. Holmes, Thos. J. English, William S. Duggan, E. J. O'Callaghan, R. D. Porter, G. L. McCormack, Geo. Strong, William C. Henchy, and Thomas Batt.

The chair was taken by the Vice-president, Mr. William F. Wells.

The Registrar, Mr. Ferrall, read the minutes of the last meeting, which were confirmed.

### ADDRESS BY MR. WELLS.

The Vice-president said:—Gentlemen,—In the absence of our President, it becomes my duty to preside at this the annual meeting of the Pharmaceutical Society of Ireland. Before we proceed to the scrutiny of the voting papers, I have, on behalf of your Council, to give an account of our stewardship. The year that closes to-night has been a most eventful one for the Society—I think I may say the most eventful in its history. Last year was marked by the passing of the Pharmacy Act Amendment Bill—a bill which was not, as you are all aware, promoted by your Council, nor did they approve of it. When it came from the House of Lords, it was a very different measure to what it was when it entered that House, and much more workable; but still, in its present form, there are some clauses under which it will be very hard to protect the public and the pharmacists. But, gentlemen, it was the duty of your Council to carry out the Act fairly as amended, and that they have done to the best of their ability. Early in the year they had to draft a lot of new regulations and to alter many of the old ones, so as to bring them into conformity with the new Act. These will appear in the calendar for 1892.

### THE SOCIETY'S NEW HOME.

I would like now to refer to one very important event of the year. Most of you are aware that, in 1875, this Society came into existence, but, like many in the world, the father of the child—the government of the day—sent it out on the world with a good name and an empty pocket. However, the College of Physicians had pity on the tender babe and became its foster-mother, and gave it the use of their fine halls, where the Society felt quite at home; but the day soon came when the foster-mother got tired of the child and put it out on the world again. Then your Council had to take apartments, but our worthy Treasurer, Mr. Hodgson, one of the original Council, and one of our most useful members, was never satisfied with this arrangement; his great anxiety ever since has been to get a house for the Society. With this object in view he hoarded up our funds. Many of us thought we should make other use of the money, but he would not part with his nest egg, and I think it right to say that had it not been for Mr. Hodgson we would not have had funds to fight against the Bill last year. I consider we are deeply indebted to him for the way he has always looked after our financial affairs, and I think the auditors will bear me out when I say that the keeping of our accounts for the past year has been no sinecure. Well, at last Mr. Hodgson has got his wish gratified. In the name of your Council, I have the pleasure of bidding you welcome to the future house of the Society. I think you will admit that the house is in every way suitable to our requirements. We had hoped to have it more complete for the meeting to-night, but it is very hard to get workmen to hurry themselves. You can form a very good idea for yourselves of the many advantages we will have in such a commodious building. This fine room in which we meet to-night will be the

Examination Hall, and we have left it to the new Council to have it fitted up for that purpose. We have set apart a room downstairs as a committee and reading room for the use of members, and I trust we may soon have the evening meetings revived.

### THE YEAR'S EVENTS.

In accordance with clause 13 of the Amendment Act an election took place in January for seven druggists to sit on the Council with the twenty-one pharmaceutical chemists then on it, the voting being confined to druggists only. At the election to-night, for the first time in the history of the Society, the whole Council retire, and the new one to be elected to-night will consist of twenty-one members, of whom fourteen must be pharmaceutical chemists, the remaining seven may be registered druggists, but the whole twenty-one may be pharmaceutical chemists. In June, much to the regret of your Council, Mr. Charles Evans resigned the presidency, which he had held for two years with credit to himself and much benefit to the Society. Mr. William Hayes was unanimously elected to the office, but unfortunately in July had to go to Australia, so that we have been without a President for the past three months.

### EXAMINATION DETAILS.

During the year your Council drafted regulations for the examination of assistants to the pharmaceutical chemists in accordance with the power given by clause 19 Amendment Act, and which have been approved of by the Privy Council. The first examination will take place at an early date. This will supply a long felt want to pharmacists. Hitherto the only legally qualified assistant they could get was our licentiate, but it has been impossible to get a sufficient number of our men to supply the wants. Now we will be able to have an assistant who has shown his competence by going through a thorough examination in materia medica and practical pharmacy, and who will be competent to transact the business of a licentiate in his temporary absence, but shall not be entitled to conduct or manage a business, or to keep open shop on his own account. I am aware that some have objected to this qualification, but I have not heard of any good objection to it. On the contrary, I consider it will be a great advantage to the employer, and when a young man gets through this examination he will be anxious to go on for the licence. As to the examinations for the Preliminary, we have had sixty-four candidates, of whom forty passed. This shows a great improvement on the previous year, when we had fifty-four candidates, of whom only twenty-two passed. In addition we had fourteen this year up for the licence, who had passed the Preliminary of other licensing bodies and have paid the fee to be placed on our Preliminary register. From this you will see that there is no fear for the future as to the supply of pharmaceutical chemists. For the licence 43 presented themselves (of whom 9 were re-examinations), and 36 passed. This shows also a large increase in the number of successful candidates over the previous year, when 36 presented themselves and 24 passed. This shows a very satisfactory improvement in the candidates presenting themselves for examination. At first sight one might think this could be accounted for by the change in the examiners which took place in January last, but I do not think that it does, as I find that at the October (1890) examination (which is included in the year's return) out of 13 candidates 12 passed. One cause of the improvement is doubtless the fact that a rejected candidate has now to pay the examination fee at the second examination, whereas he used to get the second examination without further payment. As a result men come up now intending to pass, where before they came up simply to see what the examination was like. But I think there is no doubt that the 100 hours chemistry course, which has now had a fair trial, has a good deal to say to it. During the year, out of the 43 candidates there were 26 who had taken out the 100 hours, some few had taken out 200 hours, and two others 150 and 166. I find that only one candidate failed in practical chemistry, two in theoretical chemistry, one in botany, one in materia medica, three in compounding, five in prescription reading, two in the pharmacy paper, five in grand total. Two failed in one subject only, two in two subjects, one in three subjects, and one in five subjects.

## CHEMISTS AND DRUGGISTS.

The registration under clause 6 of the Amendment Act of those chemists and druggists who were practising in Ireland as principals at the passing of the principal Act, gave an immense amount of work to the committee of your Council appointed to look into the claims sent in. I do not think words could describe the trouble this class has given to your committee. We have spent hour after hour going into the applications. Of course some of these old *bonâ-fide* chemists and druggists were easily passed, but in the majority of cases it took a great deal of writing to get the necessary evidence from the applicant. I am satisfied that a large number who have been placed on the register were in no sense druggists. In many cases the benefit of the doubt was given in favour of the applicant, and in this way very few have been refused. We have, however, some very doubtful cases yet to decide. Those who have been refused gave us, in most cases, clear evidence that they were not entitled to be registered. The committee are anxious to place every one on the register who is entitled, at the same time they feel that a great responsibility rests on them to protect, not merely the public, but also the druggists who are justly entitled to be registered, as well as the licentiates of our Society. It should be hardly necessary to remind our friends the druggists that they have a share in a great monopoly, and that every person whom the committee register who is not a druggist really, is a wrong done to them (the *bonâ-fide* druggists). Yet some think we should not refuse any who apply and state they sold even one ounce of poison. The frauds that have been attempted on us are numerous and ingenious; they are quite sufficient to make one adopt the adage, "Take every one to be a rogue till you know him to be honest." I will mention a few. Some sent invoices with dates altered prior to 1875. In one such case there is a foot-note, "Sunlight soap will follow from the works." What a ray of light comes from the soap in this case. Another was altered to 1872, while the water-mark on the paper showed that it was only made in 1875. Several had dates altered and items partly taken out and poisons written instead; others had manufactured poison-books for the occasion: some got bill-heads printed with 187 on them; one man claimed under section 7, and stated that he was not quite twelve years in business on his own account, but applied after June 1, and was late. He then made an affidavit that he was in business on his own account prior to 1875, and got a friend to certify the same thing. In another case a magistrate stated that he knew of his own knowledge that a lady was a partner in business with her mother prior to 1875, but according to her own showing she was then only eleven years old, rather a young partner to have selling poisons. In some cases ladies claimed with their husbands as partners, but, unfortunately, the framers of the Act forgot to make provision for sleeping partners, so your committee had to refuse the applications. I mention these cases to show you the difficulty the committee have had to contend with. I believe many of the applicants have been persuaded that because they got a few poisons to oblige a customer, therefore they could claim as druggists. Examinations for registration as registered druggists were held in Dublin, Belfast, and Cork for those under clause 7 of the Pharmacy Amendment Act, 1890. There were 176 candidates, of whom 160 passed and are registered as registered druggists. This examination was for those who went into business as druggists as principals between the passing of the Pharmacy Act, 1875, and the passing of the amending Act, 1890. Application under this clause had to be made on or before June 1, 1891. The Council are not bound to hold any further examinations under this clause, but they may give one more chance to those who failed. This examination was a very simple one indeed, and from the answering of many of the candidates it was clear they were in no sense druggists, and knew little or nothing about drugs. For instance, one of the candidates said he did not know if senna was a poison, but thought it was, as it was a laxative, and they were mostly poisons. Another said chloride of lime was prussic acid. Another did not know what an ointment was; could not say whether it was a pill, a powder, or a tincture; he had never seen it before. After the examination some of the candidates said they had never seen many of the specimens till the evening before. I must say that the examiner, Dr. Falkner, gave

them every chance, and those who failed were very ignorant indeed of the drugs shown them. Under clause 8, which may be called the perpetuation clause, we had 61 candidates, of whom 44 were successful, and were registered as registered druggists. Examinations under this clause will be held four times a year in Dublin, and in other places wherever twelve candidates apply.

## STRENGTH OF THE SOCIETY.

I am very pleased to report that we close this year with the largest number of members we have yet had—viz., three of the original members, who are still on the Council and subscribers, and 154 elected members. Of these 51 have joined during the year, so that in two years we have trebled the number. I think this shows that the licentiates are better pleased with the action of the Council for the past two years. There were twelve members struck off the list during the year for non-payment of subscription. For the first time in the history of the Society we have now Associate druggists, who pay the same subscriptions as members. Under that title 70 druggists have joined us this year, so that there are 227 persons entitled to vote at the election to-night.

## THE SOCIETY'S SCHOOL OF CHEMISTRY,

under the care of Professor Tichborne and Mr. Kelly, has more than realised our best expectations, and has supplied a want to pharmaceutical students. We had 30 students during the past year; the old room was not large enough for the class, but in the new house we have fitted up a room which can accommodate about forty students. The class will commence work next week; the Registrar will take the names and fees of intending pupils.

## LEGAL MATTERS.

There is one other matter I wish to refer to. A great many of our licentiates have from time to time complained of want of protection, and I think justly. They must bear with the Council for not having done more in the past year in consequence of the amount of work that has been thrown on our shoulders. I am glad, however, to say that we brought one set of test-cases in the police-court, and, as you are all perhaps aware, we got some very important decisions in favour of the Society. I think we may understand that the question of a shop within a shop has been fairly settled now. The Council know their power, and I think those who break the law ought also to know it. Hitherto it has generally cost us about 10% to recover 5%, the inspector has to get a third; but our worthy Treasurer will be glad to know that on this occasion, for the first time in the history of the Society, we have netted a profit in connection with our prosecutions. Many members may not be aware of what we can do. For every bottle made up or prescription made up by a person not legally entitled to do so, we can take three separate summonses, so that if the offender makes up a prescription in each day of the week we can proceed against him for eighteen separate sums of 5% each. In one of the cases in which we prosecuted, we brought three separated charges, making nine offences, in another there were six offences, and in the other cases there was only one offence in each. In one case we got three convictions, and the man not being in a position to pay, the magistrate asked us to be satisfied with one penalty. To this the Council assented. I should mention that the magistrates not only imposed fines in each case, but added the alternative of two months' imprisonment in the event of the fines not being paid. One of the offenders actually went to gaol for four days. It should be understood that these prosecutions are not to be one-sided affairs. The druggists as well as the pharmaceutical chemists have a great stake involved, and it is likely that after January 1 there will be a great many men selling poisons without being entitled to do so. It will, therefore, be for the druggists to watch their own interests, and now that we have associate druggists members of the Society, the Society will have no hesitation in defending their rights. (Applause.)

## ELECTION OF COUNCIL.

Our next duty is to have the voting-papers scrutinised, and I would ask Mr. Boyd, Mr. Downes, and Mr. Grindley to act as scrutineers.

Mr. HOLMES asked why a voting-paper had not been sent to him.

The VICE-PRESIDENT said there was a by-law that any member who was in arrear with his subscription was not entitled to vote.

Mr. HOLMES said he was an original member of the Society, and one of those named in the Act of Parliament under which it was formed, and therefore he was free from all charges. He had been receiving voting-papers for the last sixteen years.

Mr. HODGSON said that some years ago, when the Society was very much in want of funds, all the original members of the Society agreed to voluntarily pay their guinea each, the same as other members. That, however, did not deprive any gentleman who was an original member of the privilege given to him by the Act of Parliament.

Mr. ROBINSON moved that a voting-paper be given to Mr. Holmes, and the motion was seconded by Mr. Beggs.

The CHAIRMAN thought they would be exceeding their duty in allowing any member who had not paid his subscription to vote; but the motion was agreed to, and a voting-paper was given to Mr. Holmes.

Mr. BERNARD called attention to the circumstance that two of the gentlemen who were named as scrutineers were themselves candidates for the Council. After a little discussion Mr. Allen, Dr. John Evans, and Mr. Downes were appointed instead.

The scrutineers proceeded with their duty, and later on in the evening made the following report:—"The number of voting-papers sent in had been 182, of which 13 were spoiled. The voting for the candidates was as follows: Mr. Hodgson, 157 votes; Mr. Baxter, 156; Mr. Charles Evans, 155; Mr. Hayes, 153; Dr. Burnes, 152; Professor Tiebhorne, 152; Mr. Simpson, 149; Mr. Montgomery, 146; Dr. Whittle, 146; Mr. Beggs, 145; Mr. Boyd, 144; Mr. Doran, 143; Mr. Robinson, 143; Mr. Sunner, 138; Mr. Gibson, 136; Mr. Merrin, 132; Mr. Grindley, 120; Mr. Lyons, 119; Mr. W. F. Wells, 118; Mr. McCormick, 116, and Mr. Stewart, 110."

The foregoing, having the highest number of votes, were duly elected. The voting for the other candidates was as follows: Mr. Turkington, 47; Mr. Clotworthy, 19; Mr. Shaw, 25; Mr. Rankin, 61; Mr. Moore, 53; Mr. McNeight, 56, and Mr. Johnston, 45.

#### THE FINANCIAL POSITION.

Mr. HODGSON, the Treasurer, then made his annual financial statement. The year's operations closed with a balance in the Bank of Ireland of 377*l.* 12*s.* 3*d.* (Applause) The regular income of the Society had been similar to what it usually had been. The amount received in fees paid by those—25 in number—who went in for examination for the licence was 131*l.* 5*s.*; 70 fees paid by candidates at the Preliminary examinations amounted to 147*l.*; and subscriptions paid by 119 members had produced 124*l.* 19*s.* From those who came in under the original Act for examination, and from those who came in under the Amendment Act, 90*l.* had been received. From 370 persons who had paid fees to be registered as chemists and druggists, 388*l.* 10*s.* had been received; 166 fees paid by persons who had gone in at the modified examinations for chemists and druggists had produced 419*l.* 3*s.*; 86 fees paid for examination as druggists' assistants had amounted to 361*l.* 4*s.*; and 74 subscriptions paid by associate druggists had come to 77*l.* 14*s.* Income received from pharmaceutical chemists amounted to 402*l.* Adding some small items arising from re-examinations, the total income of the society for the year came to 1,717*l.* 16*s.* 6*d.* (Applause.) On the other side of the account there appeared 160*l.* 18*s.*, paid in fees to examiners for the licence; 33*l.* in fees to Preliminary examiners; 25*l.*, fees refunded; 17*l.*, fees paid in connection with their School of Pharmacy; sundry sums paid for salary of the registrar, postage, &c.; a year's subscription to the *Pharmaceutical Journal*; 50*l.*, rent for their late rooms in Harcourt Street; 40*l.* to Messrs. Casey & Clay, for expenses in connection with the new Act; 50*l.* in connection with sundry prosecutions; and 57*l.* for printing, stationery, &c. Then there was the large sum of 675*l.* which had been paid for their new house. They had it virtually rent free, for it was only subject to 10*l.* a year ground-rent, and that could be made by the letting of a stable at the rear. The house was thoroughly well suited to them in every respect. It con-

tained residential apartments for the registrar, a room which could be used as a club-room, and in which he hoped that all the members of the Society would now meet together, for they should all work together, and there should be no friction (applause); also a room for their School of Pharmacy; and the large chamber in which they were now met, which was to be fitted up as an examination hall, and used for no other purpose. Nothing had to be spent on papering and painting; and the outlay necessary for completing the fittings would not amount to more than a couple of hundred pounds. Since the accounts were made up, their bank-balance had been increased by various payments to 453*l.* 14*s.* 9*d.*, and they had also in the funds a sum of 248*l.* 3*s.* 1*d.* (Applause.) The accounts had been audited by Mr. Simpson and Mr. Grindley, and were adopted.

#### THE SCHOOL OF CHEMISTRY.

Dr. BURNES gave a satisfactory account of the School of Chemistry, in which he said thirty pupils were now entered.

#### THE SOCIETY'S JOURNAL.—THE "CHEMIST AND DRUGGIST" CHOSEN.

The CHAIRMAN brought forward a notice of motion that THE CHEMIST AND DRUGGIST be substituted for the *Pharmaceutical Journal* as the organ of the society. A discussion ensued, in the course of which, on the one hand, it was urged that the *Pharmaceutical Journal* was being supplied to the members rather at a loss to its proprietors than otherwise, whilst, on the other hand, several members expressed a preference for THE CHEMIST AND DRUGGIST. Eventually, a show of hands being called for, ten were raised for THE CHEMIST AND DRUGGIST, and seven for the *Pharmaceutical Journal*.

The VICE-PRESIDENT, in the course of the discussion, explained that the vote there must be taken merely as a recommendation to the Council. [We understand that the question will come before the Council in November.—ED. C. & D.]

#### PHARMACEUTICAL CHEMISTS AND APOTHECARIES.

Mr. BARNARD brought forward a motion complaining of the action which had been taken by the Apothecaries' Hall of Dublin in connection with an election held last September for a "registered apothecary or pharmaceutical chemist" for the South Dublin City Dispensary. The appointment was given to an apothecary; and Mr. Barnard contended that the just rights of pharmaceutical chemists had been ignored in the matter.

After a long discussion the matter was referred to the Council, with a request that they would consider it at their November meeting.

The proceedings terminated at a late hour.

## Gazette.

#### PARTNERSHIPS DISSOLVED.

Gibbes & Daniell, Anerley, surgeons and general practitioners.

Hampshire, Turner & Co., Hackins Hay, Liverpool, general produce brokers; as far as regards H. J. Pollit.

James & Angus, Bingley, physicians and surgeons; as far as regards D. James.

#### THE BANKRUPTCY ACT, 1883.

##### ADJUDICATION.

Solomon, Lewis, Canterbury, managing director to a public company, lately trading at the same place as the Kent and Canterbury Supply Association.

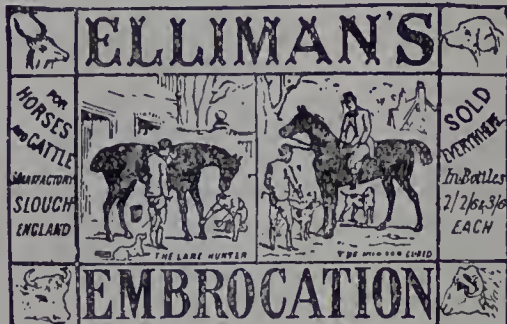
MAN'S SUPERIORITY TO THE ANIMALS. —It takes four men to give an elephant castor-oil, the dose being  $\text{xxxviii}$ . We have known it to take three women and two men to give a small boy castor oil, dose only 5j — *Hospital Gazette*.

# "SANITAS" DISINFECTANTS.

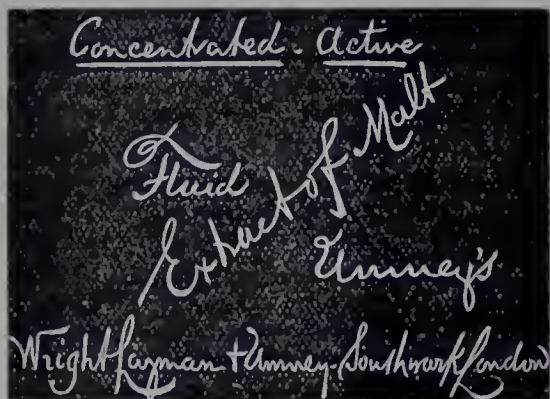
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MR. GAINSFORD BRUCE, M.P., ON  
PHARMACEUTICAL AFFAIRS.

Two members of the House of Commons were billed to  
speak on pharmaceutical topics on Wednesday evening.  
Mr. Gainsford Bruce, Q.C., member for Holborn, had been  
retained to deliver the address inaugurating the new session  
of the School of Pharmacy, Bloomsbury Square; and Mr.  
Radcliffe Cooke, member for Newington, was announced as  
chairman at the dinner of the Westminster College, held at  
the Holborn Restaurant. The interest of the coincidence  
was accentuated by the circumstance that a view of the two

sides of the pharmaceutical shield might be expected from these distinguished gentlemen. Mr. Cooke has manifested his interest in the Pharmacy Bills devised by the Council by blocking them on several occasions. His comments might be expected to be of a critical character. Mr. Bruce, in addressing the Pharmaceutical Society on a festive occasion, could scarcely diverge from a complimentary tone, and would be likely to say the best that could be said for his constituents. Unfortunately, only one of these gentlemen kept his appointment. Mr. Radcliffe Cooke did not put in an appearance at the dinner, and we have to be contented with the guidance of our favourable commentator only.

It was a happy idea to invite Mr. Gainsford Bruce to deliver the opening address of the Pharmaceutical Session. That gentleman is not only an eminent lawyer, but he is besides the parliamentary representative of the borough which the pharmaceutical establishment graces. He has the reputation of being a shrewd counsel, and an intelligent man of the world. He first made his bow to a pharmaceutical audience at the Jubilee dinner in May last, and his capital little speech on that occasion led his audience of Wednesday evening to expect something original, pithy, and spicy. These expectations, we are sorry to say, were not realised. The officials of the Society had evidently prepared a brief for Mr. Bruce, and had succeeded in choking his intellect with the dreary and familiar details of their own achievements. The address opened in a promising vein. The advantages of union among the practitioners of any art or mystery were happily illustrated by allusion to the old English guilds, and more suggestively still by reference to the trade unions of to-day, and especially to that to which the speaker has "the good fortune to belong." At the bar we are glad to know there exists no jealousy, "the youngest feels a pride in the success of the most experienced," and the briefless one makes his dinner off the contemplation of the noble income of the Attorney-General. This is as it should be in the interests of the profession, and, Mr. Bruce says, with us pharmacists our interests and those of the public are identical. Even he does not venture to make the same declaration in reference to the profession to which he has "the good fortune to belong."

These historical and social considerations seemed tending towards a discussion full of interest; but, unhappily, they led to nowhere. Mr. Bruce turned to the next sheet of his manuscript, the second course was brought on, the covers were removed, and once more was served up what we suppose we must regard as the inevitable dish at these banquets—stewed calendar.

The old platitudes about our Charter, our Acts of Parliament, the good we have done and the evils we have prevented, our examinations and the horrors of cramming and priming for examinations, followed each other in almost the invariable sequence. It was not the orator's fault. The cook who has to serve up the cold mutton in a warm condition cannot convert it into partridges. Why cannot the responsible official leave the annual essayist to hunt for his topic himself?

Mr. Bruce had probably handed the Calendar to his devil, with instructions to boil down from it three or four suitable paragraphs. But, having waded through these, he treated his hearers to a little item of his own. If this Society is so virtuous, and so simply earnest for the public welfare, ought not I, as a member of Parliament, to aid them with all my efforts? The honourable gentleman had to get round this difficulty somehow, and we are not sure that he did it very neatly. The bill, which was supported by men of great weight and influence, had not got through because it was of minor importance. The House of Commons had been en-

gaged "in the discussion of measures of the highest public interest and importance," and could not devote itself to the consideration of our "minor" concerns, important as these had been discovered to be a few minutes earlier. That was not the sort of reply the Irish representatives gave to their constituents when they showed a case for a bill. In the face of energetic opposition, they set to work and secured one for them promptly. But the member for Bloomsbury had succeeded in whisking off the pinch of salt which the President had deftly placed on his tail.

The address was wound up with a pleasing illustration of Satan reproving Sin. The denouncer of "cram," the barrister whose acquaintance with practical pharmacy is hardly likely to cover its nomenclature, detailed in all seriousness in concise and unquestionably skilful terms, the exploits of the Research Laboratory. The report was a little over-brilliant. It is the fact that there were discoveries before the Research Laboratory was founded, and, Mr. Gainsford Bruce to the contrary notwithstanding, a great deal had been done outside the laboratory "to investigate the active principles of herbs." We have not the least desire to depreciate the work done in the Research Laboratory, much of which has been valuable in the way of collecting and testing, and correcting or endorsing other people's investigations. The *Scopola* results, for instance, had been obtained for commercial purposes in an American laboratory; pure salicylic acid had been made by English and German chemists; nitrite of amyl, or rather the constitution of the higher alcohols, so-called, had been experimented upon by others and Dr. C. R. A. Wright had anticipated the conclusions almost exactly of the laboratory in respect to aconitine many years ago. These facts should not by any means depreciate the valuable work which has been carried on in Galen Place. We do not wish that it should do so. But it is right that they should be pointed out when a claim is put forward, semi-officially, to all of these results as original discoveries.

## THE PHARMACEUTICAL SOCIETY OF IRELAND.

THE annual meeting of the Irish Pharmaceutical Society, which was held on Monday last, had been regarded with unusual interest, in view of the efforts which had been made by the associate-druggist section to secure what they regarded as their fair share of control over the administration of the Acts of Parliament by which the Society is regulated. Since January last the druggists have had seven representatives on the Council, while the pharmaceutical chemists have retained their own twenty-one seats. But at this election the Council was to be reduced to its normal twenty-one, out of which the druggists had a right to not more than seven places, and to those only if they could win them. The pharmaceutical chemists may occupy the whole of the seats if they are strong enough to secure them, and if they care to thus monopolise all the power. The result has been, as was foreseen would be the case, a complete victory for the pharmaceutical side. Two of their men—Dr. Whitaker and Mr. Minchin—retired from the Council, but the remaining nineteen offered themselves for re-election, and their supporters bracketed with them Messrs. Boyd, of Dublin, and Gibson, of Belfast, as the two representatives of the druggists to be preferred. The twenty-one thus assorted have been chosen by a very decided vote as the incoming Council. The only effect which the opposition has been able to produce on the poll seems to have been to secure a low place among the victors for the pharmaceutical standard-bearer. Mr. Wells, who has borne the brunt of the contest,

has naturally been picked out as a mark for the opposition fire.

The victory is perhaps too complete. It cannot be to the interest of the Society that their associates should be so discouraged as to become indifferent; and it would be a wise policy on the part of the leaders if they were to aim at replacing a few of themselves by representatives of their allies. The proportions contemplated by the statute could not endanger their supremacy, and would be likely to maintain the funds and the general influence of the Society.

Mr. Wells, who presided in the absence of his titular chief, gave a very amusing account of the tricks which some shopkeepers had resorted to in order to secure a right to the title "chemist and druggist" by proving they had been in business before 1875. The gentleman who submitted an invoice quite properly dated, but carrying the tell-tale footnote intimating that the "Sunlight soap would be sent on shortly," and the lady whose declaration of her age and claim to have been in partnership in a drug business in 1875, being put together, led to the deduction that she was of the mature age of eleven when she was thus engaged in commerce as a principal, are the pick of the specimens. The selection from the humours of the druggists' examination-room which Mr. Wells had culled for his address also well deserves to be noted.

The meeting was held in the Society's new house at 67 Lower Mount Street, and its financial and general position appears to be more flourishing than at any previous epoch. We are glad to note that its career of prosperity seems likely to be coincident with a more intimate association with THE CHEMIST AND DRUGGIST.

### METHYLATED SPIRIT AND VETERINARY MEDICINES.

THE possibilities of fraud on the revenue by the illicit use of methylated spirit are so serious that we cannot be surprised that the authorities should guard the supply of this article with the utmost stringency. That there exists in some parts a considerable demand for methylated spirit as a heverage has been proved, though it is pretty certain that the sensational accounts of its consumption which were published a year or two ago were a good deal written up. But from a revenue point of view it is probably not the purchasers who buy methylated spirit intentionally to drink it who are the most dangerous; and the Commissioners, who rightly trust no one, aim to watch everybody, dealer and user, who handles this duty-free spirit from first to last, as closely as their organisation will allow. Last year 3,450,890 gallons of spirit were methylated in the United Kingdom. That quantity, if legitimately used, indicates a vast industry; anything like it unfairly employed may mean a serious leakage of revenue. It is clearly essential for our national industry that this duty-free spirit should be obtainable; and it is the duty and the interest of every well-intentioned citizen to support the executive in their efforts to prevent an abuse of the important provision which makes it available. So that we ought not to complain of the strict supervision of the authorities in this matter. No doubt in the administration of the law some rather hard cases occur occasionally. Last week we reported the prosecution of a chemist who, keeping three shops, had inadvertently omitted to take a licence for one of these. He was let off on paying the costs. A shop-keeping doctor in Scotland, whose assistant had obliged an Excise officer with two gills of the spirit, has this week been fined for selling it without a licence. We have a report, besides, from Dundee, where, it seems, the chemists generally

have been visited. A remark in that paragraph suggests this note. It is stated that one of the items asked for was "a colic mixture for a draught-horse." We do not know what is the custom in Dundee, but we are assured that in other parts of the kingdom the practice of using methylated spirit in the preparation of veterinary medicines is not only not unknown, but is systematic. We have seen, too, a number of orders and prescriptions written by qualified veterinary surgeons for "tinct. opii meth.," and for other similarly illegal preparations. One of our informants, who seems inclined to justify the practice, ingeniously refers us to a standard veterinary work wherein methylic alcohol is recommended as a good stimulant and anodyne for horses. He asks if he sells a horse-mixture containing wood-naphtha and tinct. opii, does he incur any risk? Evidently he does; and, however fascinated he and his customer may be with this compound, we should strongly recommend him to devise something less likely to raise suspicion at Somerset House.

Chemists who never use methylated spirit illegitimately must excuse this note, which is written to explain to some few that it is no more legal to employ it in the preparation of horse, than of human medicines. We may add the hope that the Inland Revenue officers will satisfy themselves that pure spirit is invariably used by veterinary surgeons: we have good reason to doubt whether this is the case.

### COMMENTARY.

THE PURER METHYLATED SPIRIT.—Mr. H. W. J. Morris, chemist, Thame, sends us a copy of a letter he wrote to the Board of Inland Revenue on September 26, and their reply, in reference to the supply of the purer methylated spirit, which, according to a letter from Messrs. A. & J. Warren, of Bristol, published in this journal of September 12, could be obtained by retailers *for use* by means of a new form of requisition. Mr. Morris referred to Messrs. Warren's letter, and stated that on application to the district Excise officer he had been informed that the only recognised method, according to his instructions, to obtain the spirit was to enter into a bond for 200*l.*, and to find sureties. Mr. Morris therefore asked the Board under what conditions he might stock methylated spirit, free from mineral naphtha, explaining that he wanted it exclusively for the manufacture of soap liniment and compound camphor liniment, for use in proprietary and veterinary preparations. The Board, in reply, wrote to Mr. Morris on October 5, acquainting him that the necessary requisition-book would be supplied to him on application to the supervisor. We may mention that by a general order issued by the Board of Inland Revenue in June of last year, it was provided that retailers whose stock of methylated spirit never exceeds fifty gallons are not required to give bond if they want to use it; but if they use it for any purpose beyond the manufacture of the liniments specially authorised, they should get the express consent of the Board, and, of course, since the late general order dealing with the addition of mineral naphtha to the spirit, all persons who are retailers must get consent to be users.

THEFT BY AN OLD SERVANT.—At the Mansion House Police Court, London, on Tuesday last, Wm. Collinson, who for the past thirty years had been in the service of Messrs. Horner & Sons, wholesale druggists, Mitre Square, Aldgate, was sentenced to a month's imprisonment for stealing 2 lbs. of ipecacuanha powder from his employers. At the same time Chas. Holt, an oil and colourman at Bow, was sentenced to three months' imprisonment for receiving the powder, knowing it to be stolen.

## THE EXHIBITION OF THE PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN.

THE exhibition of the Photographic Society of Great Britain, which has come to be regarded as the *salon* of the year photographically, is on this occasion very much of a failure, both in point of numbers and quality of exhibits. Many of the leading picture-makers—among whom may be named Austin, Bourne, Bright, Clark, Mendelssohn, Pringle, Tolley, Lambert, and George Davison—are unrepresented. Photographers are complaining of the management. One artist's pictures, it is averred, were received, hung, admired, and medalled, and then withdrawn, and everybody is asking, "Why?"

There is, of course, considerable discontent with the awards, one of which is to be challenged. The picture-show contains 627 pictures and 16 lantern-slides and transparencies. Medals have been awarded to: "Sunset—Winter," by F. P. Cembrauo, junr.; "A Frosty Morning—St. Moritz," by Mrs. E. Main; "A Primrose by the River-brim," by R. W. Robinson; a portrait by W. M. Waruecke; "Outward Bound," from the painting by F. Brangwyn, Royal Academy, 1890; "Autogravure," by the Autotype Company; "Six Copper-plate Etchings (from negatives from nature; by permission of the Sun Artists' Association)," by F. L. Colls; lantern-slides, by G. West & Sons.

Among other noteworthy pictures are an untouched portrait of H. Perigal, by F. H. Evans. Mr. Perigal is the *doyen* of the society, and, notwithstanding his ninety-one years, was present on the opening night. "A Captive Unconquered," a magnificent lion study, by Gambier Bolton, F.Z.S.; "In the Land of Dreams," by W. R. Cassels; "Cuckmere Haven," by H. P. Robinson; some fine effects of candlelight, by Syd. Sawyer; "Die Sirenen," by F. Hanfstaengl; and two frames, containing twenty-five photo-micrographs, illustrating the application of photography to the detection of murder and forgery.

Of new things in printing we note the adaptation of Woodbury-type printing direct upon mounts called Woodbury-gravure, by the Woodbury Company. Last year black-and-white pictures were the rage; this year we are pleased to see warmer tones prevail, but matt-surface prints still reign supreme.

The exhibition of apparatus is meagre and unrepresentative, comprising only sixty-four exhibits by about twenty firms. Messrs. Oeffelein & Co. show two frames of portraits burnt into the surface of glass plates, and two small pieces of china also decoratively burnt in enamels. This is entirely a new process, and when perfected, as it certainly is not now, may play an important part in the production of coloured windows, &c. Messrs. Archer & Sons have an excellently-designed lantern, with a new single automatic slide-changer and dissolver, which is not only ingenious, but does its work well. Mr. W. R. Baker, of Wallington, has three useful articles—a tourist developing-tent, a pocket changing-bag, and a parallel trimmer, which thoroughly deserves attention from every practical worker. Messrs. Benham & Froud, of Chandos Street, Charing Cross, show their excellent "Perfection" and "Holiday" candle-lamps, the latter of which packs up into a very compact shape. The Birmingham Photographic Company have a comprehensive exhibit from Kalli-type prints on matt and albumen surface, printing-frames, dishes, washers, racks, rockers, standholders, &c.

Mr. E. S. Bruce has a decided novelty in his "aerial graphoscope," which is a strong lath about 3 inches wide and 4 feet in length, which revolves on its centre, and upon it, whilst revolving rapidly, the image from a magic lantern is projected, and the pictures thus seen have a peculiar solidity, and look as though suspended in mid-air. J. J. Griffin and Sons (Limited) show their improved hand-camera; and hand-cameras are also shown by W. Griffiths & Co., P. Harris & Co., London Stereoscopic Company, S. Wilson & Co., and T. Samuels. Mr. J. G. Hudson shows the "Kolm" Time-Exposure Magnesium Lamp, which is of special solid construction, and will give a light of an enormous candle-power and great photogenic property. Messrs. Morley & Cooper show two neat cameras of the tourist pattern.

The most novel exhibit amongst the apparatus is the

glass-cutting machinery for cutting photographic dry plates, to work by hand or power, which is the invention of Mr. W. J. Wilson, of the Paget Prize Plate Company. A revolving table is fitted with four platforms for holding the plates, these platforms being accurately adjusted to the size of the plates; a plate is placed on one of the platforms, the table revolves, and the plate is brought under a diamond—a special contrivance ensures the most accurate position—a diamond descends and cuts the glass lengthways; the platform revolves, and the plate comes into position under another diamond, which cuts it across in the opposite direction; then the plate returns to the operator, who removes it instantly, divides it, and places a fresh plate in position." The speed of the machine is only limited by the capability of the operator to remove the cut plates and substitute fresh ones, and Mr. Wilson informs us that it is easy to cut 400 quarter-plates in a day. This great speed will be of enormous advantage to the plate-maker, and the advantage accruing to the user of the plates will be the absolute certainty of having perfect equality in size and less chance of finger-marking.

Ross & Co. and Swift & Son show cases of lenses, A. Spurge a new actinometer for platinotype and carbon printing, and J. Gaedicke some negatives on his new rapid collodion dry-plates and prints from the same. Included amongst the apparatus are some specimens of Thioearhamide reversal produced with Professor Reynold's Tetra-thio-carbamide ammonium bromide with eikonogen-lithia developer by Colonel Waterhouse. Why these, the practical result of an interesting scientific investigation, should be classed amongst trade exhibits is not obvious.

## Foreign and Colonial News.

**THE AMERICAN DUTY ON PARAFFIN WAX.**—Soft paraffin wax is now admitted free of duty into the United States, the protest of Messrs. Schoellkopf, Hartford & MacLagan, of New York, against a duty of 25 per cent. having been sustained.

**FIRE IN AN AMERICAN CHEMICAL WORKS.**—The building in Brooklyn occupied by the Columbian Chemical Works was destroyed by fire recently. Messrs. Goldsmith & Parsons, who operated the works, place their loss in machinery at \$40,000, and in stock at \$20,000. They were insured for \$30,000.

**ALLEGED FRAUD UPON INDIAN CHEMISTS.**—Messrs. Treacher & Co. and Kemp & Co., of Bombay, have filed information against an individual named Duncan Ross, who, they allege, obtained goods from their establishments by means of forged orders, purporting to have been written by customers of theirs.

**PHOSPHORUS ACCIDENT.**—In the laboratory of a pharmacy in Friedland, Silesia, Apotheker Wende and his assistant were engaged last week in preparing phosphor-paste for field-mice when a stone-jar of phosphorus solution, which was used in the operation, and which the apprentice carelessly lifted out of the basin with hot water in which it was kept, fell upon the floor, exploded, and caused severe injuries to the two men.

**OLIVE-GROWING IN SPAIN.**—The "Consulting Junta of Agriculture" has just published statistics as to the cultivation and yield of the olive last year in the thirty-three provinces of Spain, where it is grown, and, according to the figures given, the total area planted in olives was 2,884,542 acres, while the yield in oil was 68,988,640 gallons, of a total value of 7,816,908*l.*, or rather more than 2*s.* 6*d.* per gallon. The provinces in which the largest area of olive-groves are to be found are those of Jaen, Cordoba, and Seville, with about 470,000 acres each, Tarragona and Lerida, which come next, having only about 140,000 acres each.

**MORPHIA TRAGEDY IN DARMSTADT.**—Last week Darmstadt was the scene of an extraordinary morphia tragedy. A Jewish physician named Meyer, who had been for some years in practice in the town, and who was, with his wife, a

sufferer of the morphia habit, in an attack of frenzy, caused by unusually frequent administrations of the drug, threatened to commit suicide by means of a revolver. His wife, in her fright, swallowed the contents of a phial of morphia solution and died without regaining consciousness. When Dr. Meyer realised that his wife was dead, he became a raving maniac, and is now under strict surveillance. It is ascertained that immediately before the tragedy the doctor had purchased several  $\frac{1}{2}$  gramme doses of morphia and  $\frac{1}{2}$ -gramme of hydrobromide of hyoscyamine.

**THE AUSTRIAN EMPEROR AND THE PRAGUE PHARMACISTS.**—During his recent trip in Bohemia the Austrian Emperor paid a visit to the Bohemian Exhibition in Prague. He spent a considerable time in the pharmaceutical section, and the observations which fell from the Imperial lips upon that occasion (Francis Joseph is one of the most affable monarchs in active business) are enshrined with loving care in the loyal columns of the *Rundschau*. The Emperor first inspected Apotheker Fragner's exhibit, and honoured the happy pharmacist with the observation, "These are very beautiful pharmaceutical preparations." Herr Schüser, who exhibited a model of a "modern pharmacy," received this testimonial: "This apotheke is a very elegant one, and fitted in accordance with the latest requirements of science." The president of the Pharmaceutical Society of Prague acted as cicerone through the "Ancient Apotheke." Among the treasures of that exhibit was a box of "cranium humanum" concerning which His Majesty was graciously pleased to observe: "That was a peculiar medicament," following this statement with the inquiry about the origin of the large Theriacum-vessels, which proved to have been lent by the family apotheke of Count Waldstein, in Dux.

**PHARMACY IN THE GERMAN COLONIES.**—Apotheker Hermann Krauss, a member of the executive of the German Colonial Association, publishes in the *Apotheker Zeitung* a scheme for the establishment, in the German colonial possessions, of a number of "colonial pharmacies," assisting one another, and owned by a company to be formed by subscriptions from apothekers of Germany, more, it would seem, as a patriotic than as a commercial venture. The consent of the German colonial authorities is to be obtained, in the first place, for the establishment of the pharmacies, and the business is to be carried on by the company until it shall appear desirable to hand them over to private proprietors, or until their position has been rendered secure, a rather elastic clause. To facilitate the acquisition of colonial pharmacies by suitable apothekers is to be another object of the company. It is said that three or four places in the German colonies in which there appears to be a suitable opening for the establishment of a pharmacy, which might become a central point from which the numerous private medicine depôts scattered throughout the colonies would draw supplies of medicaments and surgical appliances of guaranteed quality. In addition to their ordinary business, it is suggested that the apothekers shall carry on trade with the natives by means of barter in order to secure supplies of whatever colonial products may appear suitable for the introduction upon the European drug markets. They are furthermore to devote their attention to experiments in the cultivation of essential and other oil-plants, dyes, drugs, &c.

**INDIAN CIVIL APOTHECARIES' GRIEVANCES.**—The British Indian Civil Apothecaries are memorialising Government for a removal of their grievances. According to the rules of the service each petitioner must present a separate memorial in writing. The *Madras Times* summarises the position and grievances as follows:—Civil Apothecaries, after passing out of College, draw Rs. 50 a month, whether in independent charge or not. After two years, they draw, if in independent charge (as they almost invariably are), Rs. 50 plus Rs. 25 charge allowance. After a total service of seven years, if they successfully pass an examination, they draw Rs. 75 plus Rs. 50 charge allowance; after fourteen years and another examination Rs. 125 plus Rs. 25 charge allowance, and after twenty-one and twenty-eight years (with an examination at each period) Rs. 150 plus Rs. 25 charge allowance; and Rs. 175 consolidated. From this it will be seen that a Civil Apothecary after passing out of the Medical College (his course consists of two years at a Civil Dispensary and three years at the Medical College, with of course periodical examinations)

has to pass no less than four examinations at intervals of seven years, before he can draw the maximum pay of his grade; that charge allowance, all of which he forfeits on leave of any kind, forms part of his emoluments up to twenty-eight years' service; that he must serve at least twenty-eight years before he can draw his maximum pay, and that to enable him to draw his maximum pension of Rs. 1,050 a year he must serve thirty-three years in all. In the first place it is asked that the Rs. 25 charge allowance shall be given straight away, and not after two years' service only, and independently of the fact whether the apothecary is or is not in independent charge. Next the apothecaries want to have their "privilege leave" and "sick leave" allowances increased, and placed upon the same footing. At present an apothecary drawing 125 Rs. income per month has that amount reduced to Rs. 75 when on privilege leave, but if he falls ill he only gets Rs. 37.8 per month! They also ask for abolition of examinations after fourteen years' service, and for a quicker promotion to the maximum pay than the present period of twenty-eight years.

## BANKRUPTCY REPORTS.

*Re* ALFRED ANTHONY NESBIT, 132 Camberwell New Road, Analytical Chemist.

A RECEIVING ORDER was recently made against this debtor and on Monday last the first meeting of the creditors was held at the London Bankruptcy Court before Mr. E. Leadem Hough, Official Receiver. The Chairman said that the only proof lodged was one for 345*l.* 8*s.*, by Mr. W. F. Tarn, the petitioning creditor. The debtor had not yet furnished the usual statement of his affairs, but the liabilities were returned at about 2,000*l.*, and the assets principally consisted of the debtor's interest in a patent invention for the prevention of fraud and forgery in cheques. Mr. Kent appeared for the debtor, and said the delay in filing the statement was caused by their difficulty in estimating the value of the patent. His client valued it at 2,000*l.*, but had been obliged to mortgage it, and the mortgagee only put a 600*l.* value upon it. The patent was taken out in 1881, and expired in 1895. It was not in use at present, but if more attention could be given, with a view to its improvement, it would probably turn out a valuable property. The Chairman thought that, as the patent had been in existence for ten years and had not come into general use, there could not be much value in it. The case was one for summary administration, and, in the absence of any resolution, he would continue to act as trustee, and wind up the matter in the usual course of bankruptcy.

ALEXANDER JOHN TOBIAS, Liverpool, formerly Chemical Merchant.

AT the Liverpool Bankruptcy Court, on October 2, application for discharge was made on behalf of this debtor. He formerly carried on business in Hackinsheyl, Liverpool, in partnership with his cousin, H. A. Tobias, trading as Tobias & Co., chemical merchants. The failure took place in 1884, when the joint liabilities amounted to upwards of 19,000*l.*, and the assets to 4,400*l.* A small dividend was paid, but after the trustee had obtained his release funds came into the hands of the Official Receiver under a settlement in favour of H. A. Tobias, and this money had been applied towards an increase of the dividend on the joint estate. Both bankrupts applied for their discharge in October, 1884, and it was refused. Subsequently H. A. Tobias appealed to the divisional court, when the discharge was granted. It was now urged that a long time had elapsed since the failure, that the applicant had been of good behaviour, and that there was practically no difference between his case and that of his cousin, who had been successful on appeal. The applicant stated that he was the Manchester agent of a Liverpool firm of produce brokers, and that his salary, exclusive of commission, amounted to 150*l.* a year. His Honour granted the discharge.

## THE "MOONSEED BITTERS" BANKRUPTCY.

## POWELL'S EXPLANATION.

THE adjourned public examination of A. E. Powell, of Swindon, manufacturer of "Moonseed Bitters" preparation, was held at Swindon on Wednesday. The Registrar of the County Court (Mr. H. Kinneir) was unable to be present, and his son (Mr. W. H. Kinneir) officiated as Deputy-registrar. The debtor was present, and also the Official Receiver (Mr. H. C. Tombs), and Mr. R. Moger, solicitor, of Bath, representing Messrs. Jackman, jewellers, of Bath, creditors against the debtor's estate for nearly 5000*l.* The trustees' solicitor, Mr. F. W. Henry, of London, was not present.

The Official Receiver said he had perused the written document handed in at the previous hearing by the debtor; but he did not think it said much in the debtor's favour. However, as the debtor wished it to be put in and filed, that should be done, and he would read it. The document in question was of a very lengthy character. After referring to the Eclectic Institute at Swindon, of which a "Mr. Ureh" had been stated to be manager, the document went on to say that this had nothing whatever to do with the manufacture of the preparation known as "Moonseed Bitters." The document then continued:—

In reference to the bills which I am accused of fraudulently negotiating I now find it absolutely necessary to clear up this dirty business, although I am truly sorry to do so, and have hesitated long before doing it; and I sincerely trust, as I intend paying 20*s.* in the pound, and see my way clear to do so, that no steps will be taken against anyone. I obtained some loans from Mr. H. J. Deacon, of Swindon, which I paid him back, and we entered into an arrangement; in fact, Mr. Deacon said he would back all my bills until the business would run without his aid, and I was to do my best for him. I was to pay him his bankers' charges for each bill being discounted, 20 per cent. for himself, and a bonus. I first suggested giving Mr. Deacon a 1,000*l.* order for goods I should require at a later date, but ultimately I settled the amount of bonus at 500*l.*, and I gave Mr. Deacon my I.O.U. for the sum of 500*l.*, which he accepted with the understanding that it would be met when we could run the business without any more bill-faking. I submitted to him a form of agreement between the customer and myself, when in manuscript, and I subsequently had the form of agreement printed. Mr. Deacon asked for a copy of it, and I handed him one. This was in August last year. Mr. Deacon remarked that I had left out the words, "seven days' notice," and I gave him my reasons for it. Mr. Deacon was guaranteed for me at the Wilts and Dorset Bank, Swindon, for the sum of 800*l.* He held as security for this plate and jewellery, and he also held a large stock of medicines against other loans; and it was my custom to execute orders out of my stock deposited at Mr. Deacon's, and then replace them with new stock. The said goods were not his, and he had no power to sell them. In October of last year I reduced my liabilities in Swindon alone to the extent of 550*l.*, and I could have gone on without any other aid, in spite of the advertising pressure, but for the stupidity of Deacon, who went to the Wilts and Dorset Bank and inquired how much I owed the bank. The inspector replied that it was 150*l.* Mr. Deacon expressed surprise that it was not more, and said that he was guarantee for me to the extent of 800*l.*, and that I must be pressed at once, for it was impossible for me to run the business three more days, and that I should be bankrupt within that week. This was altogether false, for I had turned the corner and was fast running into smooth water. Notwithstanding the large amount of business I did with the Wilts and Dorset Bank, and the fact that they had quickly made 1,000*l.* profit out of me, they acted upon Mr. Deacon's advice, and "came down upon me like sweeps." I paid them out; and having paid off a loan of a little over 100*l.* the same week, I felt this pressure keenly, and my plans were entirely upset. Mr. Deacon now urged me to transfer to him the lease of the Manor House, Swindon, and the right and title to the Moonseed Bitters, and I was to work the business at a stipulated weekly wage; and after I had run it three months, Deacon would snap his fingers in the face of all my creditors, and when he had beaten them he would hand me back the business free. I could not bring myself to participate in Mr. Deacon's great kindness, and I was much blundered, and pressed, and threatened with proceedings, and my customers were also threatened. I urged Mr. Deacon to renew Mr. Pinch's bill and all other bills he held, in accordance with the agreement to renew. He expressed his willingness to do so, and said he felt much for Pinch; but said his bankers would not renew, and I could not induce him. Several times I saw him during the month of September, and I always refused to make over the business to him, and he said he would sue my customers; there was nothing on the bills to show they were not good in the hands of a third party, and he should ask his bankers to press on their claims. Mr. Deacon said he should sue several of the customers whose bills he held, and they in turn would sue me, when all would end. Why would I not protect the business, and trust to him to hand it back? Mr. Deacon now swore in his several affidavits that he

knew nothing about the agreement, and issued writs right and left, wrote letters to customers saying that he had been financing me for some time, and asking them to do business with him and not with me. I thus lost much business. In November of last year Mr. Deacon put similar threats into writing, actually mentioning the existence of the very agreement he subsequently swore he had no knowledge of. I kept aloof, and avoided Mr. Deacon for months. I was terribly hunted down, and in December Mr. Deacon sold a very large quantity of plate and jewellery for 310*l.*, so I am informed and believe, and Mr. Morse, of Swindon, seized all my plant, stock-in-trade, and effects in and about the Manor House, Swindon; but I went on in spite of all this. In April of this year Mr. Deacon called upon me, bringing his solicitor with him, and I was asked to make over the business to him, and he would hand it back to me after paying the creditors 5*s.* in the pound. I offered to pay him 10*s.* in the pound, and assign the business to him, and work it till I had paid him that amount, he to pay the creditors 5*s.* in the pound and receive the same amount for himself. I should then be free from persecution, and would settle with my creditors afterwards. I was told that this was infantile; it must be made over absolutely, without any provision whatever. I was accused of having written letters to the chemists on the subject of renewing their bills and offering to support them. I answered, "I have only done my duty and told the truth." The subject then dropped, and not another word was said about it.

In the same document the bankrupt went on to describe some further interviews with Mr. Deacon, and concluded with the following remarks:—

I went to Deacon for some money. He said, "I have not the cash. How many bills have you?" I said, "Two for 150*l.* I have had them some time, and don't mean parting with them unless I am certain of their being carried out to the agreement." He informed me that he had wired to a friend in Birmingham who had money, and if he would find cash for the two bills, he (Deacon) would find the difference. He afterwards told me that his friend had gone to London; but that a message had gone on to him. Later I found that a telegram had been received to the effect that Deacon's friend had arranged to take the bills, and Deacon took the telegram to my solicitor, saying he would find the money. We then applied to the Court for an adjournment of the petition for a receiving order; but could not get it, or Deacon would have paid out, and I never should have been made bankrupt, as I was calling a meeting of creditors, and should have taken a sufficient sum into the business to pay out my liabilities.

The Official Receiver put a number of questions to the bankrupt upon the above statement, and also as to his disposal of the 4,285*l.* worth of jewellery and plate. Debtor said his statement was correct, and as to the jewellery, that had been disposed of by Mr. Deacon, from whom he had received loans upon it. On being further questioned, debtor admitted that he had received some articles of jewellery back from Mr. Deacon, and that his wife had disposed of them in London, but he could not say how much. He had taken some jewellery to Mr. Butterworth and received loans upon it. The money which his wife received from London for the goods she took there was given to his solicitor, Mr. Boodle, to pay out a receiving order. He believed his wife pawned those goods in London, but he could not say what became of the pawn-tickets. After putting a few other questions to the debtor, the Official Receiver applied for a further adjournment of the public examination. There had been, he said, a private examination of Mr. Deacon and Mr. Butterworth, whose names had been mentioned that day, which had been adjourned till the 22nd of the present month. Another reason for adjournment was that the details of the bankrupt's wife having taken some of the jewellery to London was entirely new to him, and it must be considered whether there was any likelihood of these goods being realised for the benefit of the estate. He (the Official Receiver) could not allow 4,000*l.* or 5,000*l.* worth of goods to go all over the country without getting some particulars of it. The public examination was then adjourned until November 3, at 2.30 P.M.

**HYDROFLUORIC-ACID VAPOUR**—The factory inspectors of Graz report that the workmen at certain glassworks, who were occupied in applying acids to the glass, complained repeatedly, both verbally and in writing, that the work was deleterious to their health, as they suffered from vertigo, malaise, and dyspepsia. The pallor of these workmen seemed to confirm their complaints, says the *Lancet*. The acid is used in solution, and every workman has his work connected with a fume-chimney; in spite of that the vapours collect in the rooms.

## WESTMINSTER COLLEGE OF CHEMISTRY AND PHARMACY. ANNUAL DINNER.

THE annual dinner of Messrs. Wills and Wootton's educational establishment took place as usual in the Venetian chamber of the Holborn Restaurant, on Wednesday night. Mr. Radcliffe Cooke, the member for West Newington, was announced to take the chair, and the appearance of the hon. gentleman was anticipated with some interest. But Mr. Cooke failed to put in an appearance, apologising for his absence in a telegram pleading "unavoidable absence in Ireland on Parliamentary duties." His place was taken by Dr. Alfred Matcham, who presided over a gathering of about 170 actual and former students of the Westminster College.

At the conclusion of the repast Mr. H. Wootton read the report of the last session of the college—the nineteenth since its foundation. During that session three separate courses of lectures had been delivered on inorganic and organic chemistry, experimental physics, botany, materia medica, and pharmacy. There have also been classes in prescription reading, Latin, English, and mathematics. The laboratories were open for practical chemistry for 920 hours, and the dispensary for instruction in practical dispensing for 520 hours. During the session there had hardly ever been a bench unoccupied, and of the students of this college who presented themselves for the various pharmaceutical and medical examinations, 204 were successful in passing. Of this number, 11 passed the Major, 137 the Minor, and 17 the Preliminary examination. This number of passes exceeded the average of the last ten years by 29 (or 11 per cent.). Three silver medals, 16 bronze medals, and a large number of certificates of merit had been awarded.

The toast of "The Westminster College" was proposed by Mr. G. T. Dohson, and to this toast Mr. G. S. V. Wills, the senior principal, who was received with loud cheers, responded. It gave him great pleasure, he said, to see present at those tables so many men who perhaps fifteen years ago or more came to his college as mere striplings to be instructed in the craft of pharmacy, and who were now substantial men of business, and some of them medical men well esteemed in their profession. A whole sheaf of telegrams, humorous and matter-of-fact, had been received from old students and other friends, apologising for their absence that evening and wishing success to the college. He had recently gone carefully into figures, and found that of the 13,000 to 14,000 names on the Pharmaceutical Register in this country over 3,000 were those of men who had received their education at the Westminster College. That study of figures had put an idea into his head, concerning which he hoped to tell them something further at their next annual gathering. But this much he might mention now, that he was carrying out a system of addressing to every person on the register a letter asking him if he had been educated at the Westminster College, and if he was in business on his own account. He was pursuing these inquiries systematically, beginning with the letter A, and, so far, he had not got further than C. He had addressed his letters only to those who had qualified since 1872, and already he had received 300 responses. When the alphabet had been got through, he calculated that he would have received answers from about 1,000 men in business on their own account who had been educated at his college. These would be scheduled in order, and his idea was that when this work had been completed they would set about forming a Pharmaceutical Society of their own to see if they could not achieve something for the benefit of the trade. He did not think that would be at all impossible, seeing that of the members of the Pharmaceutical Society itself only about one thousand exercised their pharmaceutical franchise, and virtually constituted the active portion of that body.

The toast of the "Demonstrators" was proposed by Mr. J. Ricketts, and responded to by Mr. W. W. Will. Other toasts, intermingled with songs and recitations, followed, and at the close of the entertainment the distribution of prizes took place. Silver medals for chemistry and physics were taken by Messrs. R. P. Heath, J. Hill, and Mr. T. Shields. Bronze medals by Messrs. J. Hill and L. Morgan for chemistry and

physics; M. Eglinton and W. Benton for inorganic chemistry; W. L. Garner for general efficiency; L. W. Cooper, R. P. Page, and H. M. Lloyd for botany; E. J. Cope, A. E. Britton, A. H. Cupit, and J. Smith for dispensing; W. H. Bridgman and W. H. Oswell for materia medica; and W. H. Oswell and W. T. Shields for pharmacy. A large number of certificates of merit were also awarded.

## Trade Notes.

MR. JOSEPH F. FUERST left Liverpool this week by the *Teutonic* for New York. He proposes to make an extended tour through the States.

THE WELLS & RICHARDSON COMPANY, of 31 Snow Hill, send us a "Dairyman's Account-book with Breeders' Fables," which they offer for distribution, the object being to advertise their butter colour and other specialties.

MR. VINCENT WOOD makes known that in order to guarantee his Eureka Pine-wool Felt Chest Protectors he is attaching to each a label, on which appears his own portrait. Mr. Wood will supply a terra-cotta statuette, in glass case, advertising his surgical appliances, free with orders of a certain magnitude.

THE CHARLES A. VOGELER Co. announce by advertisement this week that they have decided to supply a 1s. 1½d. size of St. Jacobs Oil, believing that the working classes often accept a cheaper substitute, though they know that St. Jacob's Oil is what they require. The company hope chemists will stock this size promptly.

"SEDOX."—Since we mentioned the peculiar absorbent dressing "Sedox" in our report of the Bournemouth Medical Museum, Messrs. Whitaker & Donisthorpe, of 12 Oat Lane, E.C., the proprietors, have addressed the trade regarding it, being anxious to have the assistance of chemists in making the properties of "Sedox" known to medical men and the public. "Sedox," we may say, is a substance which looks exactly like cotton-wool, but is a natural silky fibre, absorbent *per se*, and capable of taking up fifteen times its weight of liquid. It is naturally antiseptic, we are informed, and its peculiar non-irritating properties entitle it to a thorough trial as a surgical dressing. It is supplied in the natural state, and also impregnated with the most used antiseptics.

UP to the present time Florida sponges proper, from the American fisheries on the Gulf coast of the State of Florida, have not been imported into Europe on account of their high price, which was too high compared with that of Cuba and Bahama sponges. Lately, however, the Florida Sponge Company have introduced improvements in their methods of fishing, and, as a consequence, a trade in these sponges with Europe has now been opened up. Messrs. Cresswell Brothers & Schmitz, of Red Lion Square, have made a contract with a Philadelphia firm to supply them with 30,000 lbs. of Florida grass and yellow sponges every year, and the first consignment of these sponges, consisting of 1,600 lbs., left Philadelphia on August 29 by the *Fonar*.

CASCARA TABLOIDS.—Messrs. Burroughs, Wellcome & Co. send us a sample of tabloids, each one of which contains 2 grains of a solid extract of cascara prepared in their own laboratories. The special feature of these tabloids is that each one is like a tiny peppermint drop, for there is a good coating of sugar over the lenticular tabloid of bitter cascara, and the way in which the tabloids slip over the throat entitle them to give pills a long start in the race. That is a point which the makers claim for the tabloid form, and it is a good one. As to the solubility and activity of the tabloids, we have had an opportunity of testing them, and the results were quite satisfactory in a case where the intestinal tone was enfeebled and the action sluggish. In a note which the makers send with the sample they tell us that "recently a report published in America showed that in fifty-eight cases of constipation the drug was efficient in forty-four, and that it was found desirable to diminish rather than increase the dose with the lapse of time." A drug which has undoubtedly proved beneficial in a most perplexing class of cases should certainly be at least reliable, which all preparations of cascara, unfortunately, are not.

## POISONING CASES.

## ROMANTIC AND COMMONPLACE.

**AN OVERDOSE OF CHLORODYNE** caused the death at Manchester, on Sunday, of a labourer named Thomas Rand. He had been suffering for some time from a troublesome cough, for which he had previously taken smaller doses of the medicine.

**GAIETY AND AFTERWARDS.**—Lydia Manton, who had been a chorus girl at the Gaiety Theatre, and was living at Burlington Mansions, Cork Street, "under the protection" of Lord Charles Montagu, poisoned herself last week by drinking half a pint of carbolic acid, because she was irritated that her noble lover was late in keeping an appointment to lunch with her. She was tired of life at 23.

**RAN FOR HIS LIFE.**—Constable Jones, of Pontypridd, thought a dose of rhubarb and soda after dinner would do him good. He got the first all right, but in mistake for the carbonate seems to have taken a pinch of poison. He felt his "inside all on fire," his head became giddy, and his stomach swelled. Then he looked at the label, and found the word "poison." He ran with all his speed to a doctor's, got an emetic just in time, and recovered.

**SINGULAR DEATH OF A PHYSICIAN.**—On Monday of this week Mr. C. J. Lewis, coroner for West Essex, held an inquiry at Walthamstow respecting the death of Eustace Frederick Bright, aged 29, a physician and surgeon, lately practising at Bournemouth, who was found dead in a lavatory at the St. James's Street Station, Walthamstow, on Friday night. The deceased was M.D. of Lond. His father, a bookseller of Bournemouth, said his son was visiting London, where he intended staying for two nights. He was quite well and in good spirits, with the exception of having been troubled with toothache for some months past. His prospects were of the brightest, and he had no trouble of any kind. Dr. Stevens, of Walthamstow, said he was called to the deceased a few minutes after seven o'clock. He had probably been dead for six hours. He had vomited slightly, but his face bore a calm, contented expression. Twelve small phials containing morphine and cocaine and apomorphine tablets and a larger one containing tabloids of cocaine, and a third containing a solution of cocaine were found. One of the apomorphine tablets was missing, and witness was of opinion that the deceased had taken an overdose of cocaine to relieve the pain, and then, feeling the effects of the overdose, had recourse to the apomorphine in order to produce vomiting. A verdict that the deceased died from an overdose of cocaine taken inadvertently for the purpose of relieving pain, was returned.

**MYSTERIOUS POISONING CASE IN THE HAYMARKET.**—On Thursday evening Mr. Troutbeck, coroner for Westminster, held a protracted inquiry at the Board-room, Poland Street, W., into the circumstances attending the death of Jennie D'Arcey, twenty-two years of age, lately residing at 1 Rupert Court, Haymarket, who died on the 3rd instant from the effects of strychnine, alleged to have been supplied in a packet of Epsom salts, purchased at the shop of M. Le Maout, a French chemist, carrying on business at 15 Wardour Street.

Jean D'Arcey, residing at 1 Rupert Court, identified the body, and stated that he last saw the deceased alive at 7.10 A.M. on Saturday. She was then in good health and spirits, and witness left her to go to his work. He next saw her at a quarter to eight on the same morning when he was fetched from business, and on arriving home found her lying on her bed and foaming at the mouth. By the Coroner: Before he had left her he had given the deceased some Epsom salts which his mother had given him. It was in a small square packet sealed on both sides but not labelled. She complained of its tasting very bitter and witness then gave her a peppermint pastille. He did not exactly see the "salts" as he opened one end and let the powder drop into the glass. He only gave the deceased about a quarter of the contents of the packet and put the remainder on the table.

Lonise D'Arcey, sister of last witness, stated that she was in an adjoining room to the one occupied by the deceased at 7.45 on the morning in question. She heard the deceased scream, and on running into the room saw the deceased in a kind of fit. She applied restoratives, and as she

did not rally she sent for a doctor. The deceased ejaculated in the meantime, "It is too strong. Your mother ought to have told you. It is burning me." The deceased and witness's brother were on good terms with each other. By the Coroner: She had often purchased Epsom salts at M. Le Maout's, and the packets had never been labelled.

Madame Louise D'Arcey, residing at 8 Earl's Court, Soho, the mother of last witness, said that she purchased the packet of Epsom salts in question at the shop of M. Le Maout. She gave it to her son on Friday night. She had bought it ten or twelve days before. There was no label upon it. She identified the packet produced as the one she had purchased and given to her son. She paid a penny for it and gave it to her son in the same condition as when she received it. The witness added that on Monday, after the salts had been administered, M. Le Maout called at her house with a young man, and asked her where she had bought the powder. She replied that she had purchased it at his shop. He stated that he recognised her, but that before she went to the magistrate she should have seen him. She informed him that she had taken no steps; it was the doctor. M. le Maout said that he wished her to deny that she had procured the powder at his shop. He left her to consider the matter, and, returning after a time, asked what she had determined to do. She said that she could do nothing of the kind, and he thereupon said that he would blow out his brains. By the Coroner: No one had had access to the medicine in her room.

Mr. George Clark, M.D., practising at 23 Gerrard Street, said that he was called to see the deceased at 7.45 on Saturday morning. She was foaming at the mouth and breathless. He asked whether she had taken any medicine, and Miss D'Arcey said "No." He looked round the room, but saw nothing suspicious. He then went home to dispense an antidote, but was recalled, and found her in a dying condition. She died at about five minutes past eight. Witness elicited from the first witness that he had given the deceased some Epsom salts, and he produced the remainder of the contents in the blue paper produced. Witness had since analytically examined the powder and the sediment in the glass, and discovered traces of strychnine. The "salts" were not of the usual colour. He had made a post-mortem examination of the body, and in the smaller intestine discovered traces of strychnine. Witness sent a boy to M. Le Maout's shop to purchase a packet of Epsom salts, which was labelled and found to be perfectly pure. Questioned by Le Maout, the witness said he found nothing the matter with the second packet. The cause of death was strychnine poisoning.

Auguste Le Maout, after being duly cautioned by the coroner, elected to give evidence. He deposed that he had no doubt that what Madame D'Arcey had said was the truth, but he thought her statement was exaggerated, and, such being the case, he wished to know whether there was not a bottle of medicine on her mantelpiece, which had not been purchased at his shop. He did not prepare his own medicine, but obtained it from a large City firm. He had seen the rest of the powder, and was satisfied that it had not come from his shop. It might have done however, but the colour of his wrapper was different to the one produced. Since he sold it it might have come into contact with poisonous substances such as vermin-killer; if such were the case, and the packet were slightly damp, the poison might have become absorbed by the salts. He wished to explain that it was not his intention to blow out his brains, but what he meant to convey was that he would be ruined. Although in the previous case it was not proved that the salts were purchased at his shop, he had since taken great care in making up the packets. It was a fatality for which he could not account. As a matter of fact he did not keep strychnine in stock nor vermin-killer.

Dr. Clark here added that Jean D'Arcey at first told him that the medicine was obtained from a shop in Leicester Square, but he subsequently said it was at Le Maout's that it was procured.

Some further evidence having been given, the Jury, after an hour's deliberation, returned a verdict "That the deceased died from strychnine poisoning, administered by Jean D'Arcey, but there is not sufficient evidence to show how the poison came into the packet of Epsom salts."



**Notice to Retail Buyers:**—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, October 8.

THE week under review has been a quiet one so far as drugs are concerned, though in heavy chemicals business has been pretty brisk, and the value of several articles has advanced. Ciuchona sold well at the London auctions, and from Amsterdam the news comes to-day that the heaviest public sales on record there have passed off satisfactorily, in so far that there has been no decline in value. American peppermint oil is firmer again; Mitcham oil is also very strongly held. Jalap is still advancing, cumin and anise remain steady, and raw camphor has improved somewhat. Oil of star-anise is somewhat lower. In chemicals the chief features of the market are the improvement in the citric-acid market and the advance in sugar of lead. Tartaric acid is dull and lower; caffeine, cream of tartar, oxalic acid, morphia, and glycerine are also easier. In "outside" articles the principal alterations may be summed up as follows:—Higher: Kowie gum of good quality, Turkey galls, Cochin ginger, chillies, shellac, carnauba wax. Lower: China soy, pimento, cloves, black pepper, gambier, West Indian tamarinds, capsicum, Singapore copal, Zanzibar animi, and cocoa butter. The bank rate remains at 3 per cent.

#### THE COMMERCIAL ADVANTAGES OF THE METRIC SYSTEM.

—The Secretary of the Decimal Association points out that recent consular reports from Italy and Japan have referred to the loss of trade accruing to firms in England who send to those countries circulars and price-lists based on the English weights and measures. A similar complaint now comes from Egypt, where our Consul declares that our weights and measures are utterly intelligible to a large proportion of the persons in Alexandria and Cairo to whom export houses in this country forward their circulars and price-lists. The metric system of weights and measures is in force in Egypt, and exporters of English goods to that country should, of course, adopt it in their quotations and transactions. It has been suggested that the adoption of the metric weights and measures should be carried out in Australia as one of the early labours of the coming Government of Federated Australia. In the *Sydney Morning Herald* of July 11 last there is the following forcible reference to the subject:—"The fact that such an absurdity as our present monetary system and that of our weights and measures should have survived so long shows how strongly they must have entrenched themselves in the stupidity of human nature. It is a shame to our intelligence that such a burden should have been tolerated so long, and the advance of Australia into the field of nations should be made the occasion of throwing off an incubus that we and our fathers have groaned under so long."

**GERMAN POTASSIUM BROMIDE IN AMERICA.**—With reference to a statement in our Trade Report of September 26, to the effect that an American firm of chemical manufacturers had called attention to the importation of German potassium bromide in America under an alleged declaration of value below the actual figures, and with the fraudulent

intent to evade duty, the Vereinigte Chemische Fabriken, at Leopoldshall, write us that, as they are the firm responsible for the management of the German bromine convention, they wish to explain that the National Bromine Company, of New Philadelphia, having dissolved without giving notice of the lapse of existing contracts with them, the several firms composing that company began by demoralising the European markets with cheap offers and consignments. The German bromine convention, although determined to compete with American producers in their own market, has never, and does not propose, to resort to doubtful means, in order to avoid legal customs charges. The object of the silly conjectures of the American will be easily appreciated by those who have followed the position of the market.

**THE PRODUCTION OF CRUDE GLYCERINE.**—The basis for the preparation of the chemically pure glycerines used in pharmacy is the so-called saponification crude glycerine of the stearin works. The total output of crude glycerine in the world is said to be 40,000 tons per annum, of which 14,000 tons are obtained in soap manufacture, and 26,000 tons in stearin manufacture. Of the glycerine gained in soap-making, 5,500 tons are produced in the United Kingdom, 3,500 tons in France, 3,000 tons in the United States, and 2,000 tons in Germany. Many more countries participate in the production of stearin-glycerine, their approximate shares being as follows: France, 6,000 tons; Germany, 3,000 tons; United States, 3,000 tons; Holland, 2,000 tons; Austria, 2,000 tons; Russia, 2,000 tons; Belgium, 1,800 tons; Italy, 1,800 tons; Spain, 1,500 tons; United Kingdom, 1,200 tons; Sweden and Norway, 350 tons; Switzerland, 300 tons; the Argentine, 300 tons; Australia, 300 tons; Portugal, 200 tons; Roumania, 150 tons; and Greece, 100 tons. Paris is the centre of the crude glycerine trade, and the place whence most of the speculative movements in the article originate. Between 1864 and 1891 the Paris quotation for crude standard glycerine has varied from 35 to 205 francs per 100 kilos. In 1881 the price was forced up to 205 francs, but at that point the consumption suddenly decreased, while the stearin and soap works, enticed by the enormous price of the article, increased their output to an abnormal degree. Then the crash came, and in the summer of 1882 the quotation came down to 120 francs. Quite recently a process is said to have been discovered by which soap-makers are enabled to recover the entire proportion (10 to 12 per cent) of glycerine in the fat in an almost pure condition, and with very simple and cheap apparatus. This process will very materially affect the glycerine industry, as the glycerine from the soap ley has hitherto been used almost exclusively for dynamite-making. The output of this explosive in 1886 was estimated at 40,000 tons.

#### DESTRUCTION OF TWO LONDON PRODUCE WAREHOUSES.

—On Sunday night a fire broke out at Mark Brown's wharf, in Potter's Fields, Tooley Street, on the south side of the Thames east of London Bridge. On the wharf are several warehouses, stored mostly with colonial produce. Two of these warehouses were completely burned out. From Mark Brown's wharf the fire spread to the adjoining wharf, known as Pickle Herring Wharf. Here were several warehouses stored with produce of a similar nature to that at Mark Brown's wharf, and four of these were seriously damaged, the upper floors being partly burned out and the remainder of the contents injured by smoke and water. By 3 A.M. on Monday morning the fire was subdued. The official account states that, at Mark Brown's wharf, two warehouses (one of four and one of five floors) were burnt out, or nearly so, and the contents of three other four-floor warehouses damaged by smoke and water, and that at Pickle Herring Wharf the contents of four warehouses were slightly damaged by smoke and water. The monthly returns of goods in stock at both wharves had just been published. They include the following items of interest to the drug trade at Mark Brown's Wharf: cutch, 94 tons; mimosa bark, 407 tons; beeswax, 39 casks. Gums—animi and copal, 580 packages; damar, 1,680 packages; kowie, 185 tons; cassia lignea, 18,599 packages.

**ACID (CITRIC).**—Since our last report a very considerable business has been transacted. The principal English manufacturers have sold over 100 tons this week, at 1s. 4½d. per lb. for delivery from six to twelve months ahead. After that they advanced their price to 1s. 5d. per lb. but to-day they again quote 1s. 4½d. on the spot and 1s. 5d. per lb. for forward delivery. The exports of citric acid are heavy, especially to Russia, where the ports will soon be closed. Juice is cabled higher from Sicily to-day, up to 19l. 15s., c.i.f. We are informed that special inquiries in Sicily have positively shown that the stock of concentrated juice there is only between 400 and 500 pipes. The exports of citric acid from London during the first nine months of this year amounted to 3,579 cwt.

**ACID (OXALIC)** dull and easier. Business is said to have been done for October delivery, at 3d. per lb.

**ACID (TARTARIC).**—The nearest value is now 1s. 1¼d. per lb., with a full market. The first tartaric acid factory in Russia has just been opened at Tiflis in the Caucasus.

**ACONITE.**—There has been another arrival of 43 packages of aconite root from Japan.

**AMBERGRIS.**—A parcel which arrived per *Ocean* from Melbourne this week, and was consigned to a London bank, is believed to be the identical "monster find" referred to in this journal a few weeks ago. The consignees, we understand, decline to give any particulars about the lot, or even to allow it to be inspected. The declared value is 10,000l., and the weight 160 lbs., and on this basis the average value works out to less than 80s. per oz., whereas the value of finest grey ambergris is (or was a few days ago) 180s. per oz. nominally. For the moment nobody is willing to buy, but the reticence of the consignees to show the "monster find" is construed as proving that the quality is anything but good. There has lately been a very good business in ambergris by private treaty. The sales embrace all varieties, and for good to fine grey from 140s. to 180s. per oz. has been paid.

**ANISE**—*Russian* seed of fair quality from former seasons is still obtainable here at about 22s. per cwt., but in Russia the prices are said to be much above our parity, and the equivalent of 27s. per cwt. is reported to have been paid here for new season's anise. Sales of new crop star-anise for October-December shipment at 84s. per cwt., c.i.f. Marseilles, are reported.

**ANNATTO.**—Good Brazilian *roll* annatto is scarce, none having been imported for a considerable time. The nominal quotation is 8d. to 9d. per lb.

**BALSAM (COPAIBA).**—The market is rather flat. Bright *Pará* balsam is held for 1s. 10d. to 1s. 11d.; good to fine thick *Maranhão* at 2s. to 2s. 1d. per lb. The increased imports of Maranhão balsam in Liverpool have rendered the market rather easier, and sales are reported at 1s. 11½d. to 2s. 1d. per lb. for dark and cloudy to fine bright quality. There have been heavy arrivals in New York, and prices are reported easier all round.

**BUCHU.**—An arrival of 25 packages has taken place this week from Cape Town, per *Moor*.

**CAFFEINE.**—The English manufacturers have recently reduced their quotations.

**CALABAR BEANS** still continue to sell at 3d. per lb. in Liverpool.

**CAMPOR (CRUDE).**—The market has gained strength somewhat since our last report. We hear of a sale of 5 tons *China* camphor, Oct.-Nov. shipment, at 109s. per cwt., c.i.f. landing weights. *Japan* nominally 127s. 6d. to 130s. per cwt. on the spot.

**CANNABIS INDICA.**—All the available supply of this drug is reported to have been bought up at the rate of 4½d. per lb. for fair greenish tops. The holders now ask from 5d. to 5½d. per lb.

**CARAWAY SEED.**—Firm at the recent advance. Dutch seed is quoted at 20s. to 23s. per cwt., according to quality and season.

**CHAMOMILES.**—The whole of the Belgian crop has now been harvested, and prices range from 80s. to 82s. 6d. for fair, and up to 100l. for fine white flowers.

**CHILLIES.**—Zanzibar chillies have considerably advanced. At the spice auctions 13 bales of medium quality sold at 41s. 6d. to 42s. per cwt.

**CINCHONA.**—Having regard to the meagreness of our bark sales of late, the supply of nearly 1,500 packages this week seemed almost abundant. The quality of the bark offered, too, was superior to what our buyers have had to content themselves with lately. The catalogues consisted of

|                     |    | Packages |          | Packages |           |
|---------------------|----|----------|----------|----------|-----------|
| Ceylon bark         | .. | 1,001    | of which | 1,001    | were sold |
| Indian bark         | .. | 138      | "        | 105      | "         |
| Java bark           | .. | 84       | "        | 74       | "         |
| South American bark | .. | 214      | "        | 5        | "         |
| Total               | .. | 1,437    | "        | 1,185    | "         |

There was a very fair demand throughout the auctions, in which the majority of the manufacturers' agents participated, and with steady competition all the Ceylon as well as the bulk of the Indian and Java barks were disposed of at an average unit of 1½d. per lb. for good manufacturing barks.

The following are the approximate quantities purchased by the principal buyers:—

|                                                   | Lbs     |
|---------------------------------------------------|---------|
| Agents for the Mannheim and Amsterdam works       | 67,157  |
| " Auerbach factory                                | 55,683  |
| Messrs. Howards & Sons                            | 46,303  |
| Agents for the Frankfort o/M. and Stuttgart works | 42,755  |
| " Brunswick works                                 | 29,150  |
| " American and Italian works                      | 26,910  |
| Sundry druggists                                  | 10,183  |
| Total quantity of bark sold                       | 278,150 |
| Bought in or withdrawn                            | 53,870  |
| Total quantity of bark offered                    | 332,020 |

It should be well understood that the mere weight of bark purchased affords no guide whatever to the quinine yield represented by it; firms who buy a small quantity of bark by weight frequently take the richest lots, and *vice versa*. The following prices are shown by an analysis of the catalogues to have been paid for sound bark:—

**CEYLON CINCHONA.**—*Original*: Red varieties, ordinary woody to good bright stem and branch chips, 1½d. to 3d.; a few fine lots, 4d.; dust, 1d.; dusty root, 2d.; ordinary weak quill, 3d.; fair to fine bright spokeshavings, 1½d. to 4d. per lb. Yellow varieties, common to good bright quilly Ledger chips, 1¾d. to 6½d.; good to fine bright shavings, 4d. to 7d.; dull root, 3d.; ordinary Calisaya chips, 2¼d. to 2½d.; root, 3d. per lb. Grey varieties, ordinary dull to good bright quilly branch and stem chips, 1¾d. to 5½d.; fair to good root, 3d. to 5½d. per lb. Hybrid chips, 1¾d. to 4d.; root, 3¾d. to 4d.; shavings, 2½d. to 5½d. per lb. *Renewed*: Red varieties, good to very fine rich shavings, 3¾d. to 6½d.; poor to good stem and branch chips, 1¾d. to 3¾d.; good quilly chips, 4d. per lb. Yellow common chips, 3¼d.; fair shavings, 6½d. to 6¾d. per lb. Grey varieties, poor to good quilly stem and branch chips, 2¼d. to 5½d. per lb. Hybrid, dusty to fair stem and branch chips, 2½d. to 4½d. per lb.

**EAST INDIAN CINCHONA.**—*Original*, ordinary red spokeshavings, 1½d.; fair, partly quilly, mixed chips, 2d. to 2¾d. per lb.; grey, small quilly chips, 2½d. to 2¾d.; fairly bright chips and shavings, mixed, 4¼d. to 4½d. per lb.

**JAVA CINCHONA.**—Fair to good Ledger chips, 2¾d. to 7d.; good root, 7½d. per lb.

**SOUTH AMERICAN CINCHONA.**—Of 204 packages cultivated *Bolivian Calisaya* only five were sold, at 7½d. for fair, partly broken quill.

The London imports between September 21 and October 6 have been small—viz., 1,595 packages, including 217 from the West Coast of Africa and 359 from South America. The London stock on October 1 is put down at 48,986 bales, against 52,431 bales on October 1, 1890.

**CLOVES** remain very dull of sale. At the auctions on Wednesday 148 bags good fair Zanzibar found buyers at 3½d. per lb.

**COCOA BUTTER.**—Prices declined at the monthly auctions on Tuesday. On that occasion, 400 2-cwt. cases of Cadbury's cocoa-butter sold at 12½d. to 13½d. per lb. Five cases 3-oz. cakes of the same brand brought 13¾d. to 14½d. per lb. The last lots were the cheapest in both instances.

**COCA-LEAVES.**—The arrivals in New York have been rather larger lately. The demand remains good, and the quotation is 1s. 3d. per lb., c.i.f., for thin *Truxillo* leaves, and 1s. 8d. for prime dark-green *Huanoco*.

**CODEIA.**—Quiet at 12s.

**CREAM OF TARTAR** may now be had at 93s. for best French crystals. It is thought that the market has not yet reached the bottom.

**CUBES.**—Our stock has been reinforced this week by the arrival of 96 packages from Holland.

**CUMIN SEED.**—Thirty-six shillings remains the highest price paid for *Malta* seed, but 37s. 6d. is now required. *Mogadore* seed of fair quality is held for 22s. 6d.

**ERGOT OF RYE.**—*Russian* ergot keeps steady at 1s. 5½d. per lb. c.i.f. to 1s. 6d. on the spot; but we do not hear of any business of importance.

**FENUGREEK SEED.**—*Mogadore* seed remains firm, at 12s. 6d. per cwt. for good quality. For *Egyptian* seed 7s is now required in Liverpool, up to 6s. 9d. having been paid for this variety.

**GALLS.**—The crop of *Persian* galls is said to be very small, and the London stock is mostly in second-hands; good blues are now held for 65s. per cwt.

**GINGER.**—*Cochin* ginger is still rising in value. During the early part of the week considerable sales (over 1,000 bags) were made at prices running up to 47s. 6d. per cwt. for C cut, and 37s. to 38s. for good washed rough. At auction the large supply of 1,372 packages was offered, but buyers held off, and only 355 packages sold at a decline upon the prices paid privately. For ordinary small and lean to good medium rough, from 27s. to 37s. per cwt. was paid. About 25 barrels common to good washed *Jamaica* ginger sold at 48s. to 61s. 6d. per cwt., and 200 bags *Bengal* are reported to have changed hands privately at 23s. per cwt. The statistical position of ginger is considered favourable.

**GLYCERINE.**—The market is rather easier, and it is possible to buy double-distilled S.G. 1,260 at 51s., or perhaps 50s. per cwt.

**GOLDEN SEAL ROOT.**—The new crop is arriving upon the New York market, and offering at 1s. 1d. per lb., c.i.f. terms, for quantities.

**GUINEA GRAINS.**—Sales at 20s. per cwt. are reported from Liverpool.

**GUM AMMONIACUM.**—The market is firm with very little offering. Small sales of ordinary quality at 35s. per cwt. are reported.

**GUM ARABIC.**—White *Mogadore* gum has been in good demand this week. There have also been several sales of new crop—*Barbary* at 50s. to 52s. 6d. per cwt., and of new *Mogadore-Amrad* at 36s. to 37s. per cwt. Sales are further reported of fair quality *Aden* gum at 45s., and ditto *Ghatti* at 30s. per cwt. For *Kurrachee* gum there is also a fair inquiry.

**GUM BENZOIN.**—The arrivals are very heavy, no less than 346 cases having arrived in one vessel from Singapore this week.

**GUM KINO.**—The market remains very firm. For good East Indian kino 70s. per cwt. is wanted.

**HONEY.**—The Liverpool market remains very firm, with sales of about 50 cases *Californian* at 40s. for fair; 45s. per cwt. for fine; and a fair quantity of *Chilian* at 26s. 6d. for common, up to 37s. per cwt. for good quality. The stock of *Chilian* honey is now much reduced.

**JALAP.**—The market is decidedly dearer, and business has been done at 1s. 9d. per lb. on Tuesday and Wednesday. The New York price is cabled as 52½c., and the London holders say that they will sell no more under 2s. per lb.

**JUNIPER-BERRIES.** In Italy there is a plentiful supply of berries of ordinary quality, and these are scarcely saleable, even at very low prices—say 5s. 6d. per cwt., f.o.b. On the other hand, fine berries are in strong demand and scarce at 6s. 6d. to 7s. per cwt., f.o.b.

**LEAD ACETATE.**—The convention among the German sugar of lead makers was re-established on October 1, and prices have since been advanced 30s. per ton. Best white sugar of lead is now held for 28l. per ton on the spot, and for 27l. to 27l. 10s. c.i.f. British port, according to quantity.

**MERCURIALS.**—The English manufacturers have not altered their quotations, *Culomet* being still quoted by them at 3s. 1d. per lb.; and the other salts on the basis of that figure.

**MORPHIA** slightly easier; powder is now quoted at 3s. 7d., crystal at 3s. 10d. per oz.

**OILS (ESSENTIAL).**—The following is the present position of the Mitcham crops:—The good demand of the last three or four weeks for *Peppermint* oil has, for the present, been checked somewhat by the price which growers now demand—viz., 35s. to 36s. per lb. net. Of the smaller holders and growers few have any stock left, and, in consequence, prices remain very firm, whilst inquiries show that the oil is still much wanted. Growers, however, by waiting and holding, are confident of getting better prices even than those now asked. It seems certain that the consumers will have to face still higher prices shortly, more especially as the stocks are this season in very strong hands. *Lavender* is at present slow of sale, with quotations varying from 55s. to 60s. per lb. net. *Chamomile* has not yet all been distilled, but it will, undoubtedly, be much dearer this season. American *Peppermint* oil has improved during the last two days, and sales have been made at 14s. to 14s. 3d.; for HGH oil 14s. 6d. is now asked. Sales of star-anise oil to arrive at 5s. 9d. per lb. c.i.f. terms are reported. This shows a decline in value. The latest advices from New York, dated September 26, are as follows: In the open market HGH oil is in very small supply, with a good export demand and sales since the middle of September of about 85 cases. Mr. Hotchkiss himself, who has not more than 50 cases to offer for October delivery, wants a figure equal to 14s. 6d. per lb.—London terms for these—while second-hand holders are offering HGH oil at 13s. per lb., c.i.f. terms. The demand for bulk oil has also improved, especially for high class qualities; but the farmers, it is said, are unwilling to sell at less than \$3 per lb. for Wayne County, although it is possible to buy in other quarters at a lower figure. From 10s. 9d. to 11s. per lb., c.i.f. terms, is named for good bulk oil. *Sassafras* oil is dearer—at 1s. 10½d. per lb., c.i.f., for fine quality.

**OPIUM.**—In London a very fair trade is doing in manufacturing-opium at 7s. 6d. to 8s. per lb.; the druggists are buying largely. Good to choice new-crop druggists' opium is held at 8s. to 9s. The *Persian* crop has not yet arrived; Some fine old *Persian* has been sold at 10s. 6d. per lb.; good quality is worth 9s. 6d., soft shipping very quiet at 10s. to 10s. 6d. per lb. Telegrams from Smyrna received to-day announce that 180 cases *Karahissar* have been sold there to the Dutch Company, and that there have also been sales of 100 cases of *Tulequale*. The following are the latest particulars (dated September 26) with regard to the position of opium in Smyrna. The sales during the month of September amounted to 25 cases selected *Karahissar* and 115 cases manufacturing opium, of which latter 85 were for consumption, and 30 for speculation. On September 26 the f.o.b. Smyrna quotations were:—*Karahissar*: selected, 8s. 6d. to 8s. 7d.; current quality, 8s. 2d. to 8s. 3d. per lb. *Manufacturing*: Yerli, 7s. 9d. to 7s. 10d.; current to fine selected, 7s. 3d. to 7s. 6d. per lb. "The old drug," continues our informant, "is still firmly held, owing to its high cost, but holders sooner or later will be obliged to give way, as it is only suitable for manufacturing purposes. Now that all the crop has been gathered, it transpires that it will not exceed 8,000 baskets, or 7,200 cases. Since the commencement of the present season in July last about 700 cases have been sold, of which 170 were taken against sales to the Dutch Government, 430 have been exported to various destinations, and 100 remain here in speculators' hands. It is probable that prices will remain much as they now are for another month or so, but decline as the season advances, if the winter sowings are carried out under favourable conditions."

**ORRIS-ROOT.**—We hear from Italy that practically the entire supply of the new crop of Florentine orris has been bought up by a syndicate, which holds at 130s. per cwt. f.o.b. Leghorn for selected root. The crop is small, and there is a

good inquiry for export. Verona root is also dearer, and scarce at 70s. to 72s. 6d. per cwt. for first, 65s. to 67s. per cwt. for second, and at 49s. per cwt. for third quality—all f.o.b. Leghorn, prompt delivery.

QUICKSILVER remains very firm at 7l. 10s. from the importers.

QUILLAIA.—The stock is small in Liverpool, and high prices must be paid. The top quotation so far has been 33l. per ton. A parcel of 308 bales has arrived from Valparaiso per *Magellan*.

QUININE.—The market remains dull, but at the close of last week a small transaction in second-hand German bulk at 9½d. per oz. was reported. Since then business has been suspended in anticipation of the result of to-day's bark sales in Amsterdam. On September 25 one of the German "speculative" brands was being offered in New York by the manufacturer at 19½ cents (¾9d. per lb.) for contracts all over 1891. That manufacturer certainly does not entertain sanguine views with regard to the future of the article. The following are the manufacturers' present quotations:—Howard's, in tins, 1s. 1d. to 1s. 3d.; in vials, 1s. 3d. to 1s. 4d.; Whiffen's, in tins, 1s. 1d.; in vials, 1s. 3d.; Pelletier's, in vials, 1s. 10d.; Milan, in vials, 1s. 2d.; in tins, 1s.; Zimmer and Jobst, in tins, 11½d.; other German brands, in tins, 10½d. per oz.

SARSAPARILLA.—The recent advance in New York appears to have been caused by the creation of a "corner," but, with considerable arrivals from Mexico, it is doubted whether the extreme quotation can be maintained.

SENEGA.—American advices, dated September 25, are as follows: "The export demand being now fully supplied, the dealers in the West can find no outlet for the remaining stock, unless they can stimulate speculation. For several years past this has taken place, but in every instance a big loss was incurred by the holders, and therefore no movement in that direction is anticipated this season. Very large quantities Manitoba root are pressing on the market, and we hear that several consignments were made to London, and will appear in public sale. If these fetch decent prices (their value in New York is equal to 1s. 4½d. per lb., c.i.f.) more will follow.

SHELLAC.—Since the auctions the market has remained quiet but steady, with a fair demand for Garnet lac, and sales of unworked AC at 87s. 6d., and worked ditto at 90s. per cwt. For bronze orange 82s. 6d. per cwt., net, has been paid. The market closed very firmly last week with some business in Garnet lac on the spot at 86s. 6d. to 87s. per cwt. net; shipment fine first *button* at 95s. per cwt. net, and second orange, ordinary TN, at 82s. 6d. per cwt. For arrival the market was rather quiet with a small sale of TN second orange lac at 93s. per cwt., c.i.f. terms., for November-December shipment. At the auctions on Tuesday 750 cases (orange and *button*) were offered, of which 530 cases sold, with good competition, at an advance of 1s. to 2s. per cwt. on the last sale rates for orange, but at rather easier figures for good and middling *button* lac. The following prices were realised:—*Second orange*, good pale worked, 93s. to 94s.; fair pale unworked, 90s. to 91s.; fair to good reddish, 88s. to 90s.; partly blocky ditto, 86s. to 87s. per cwt. *Button* lac: blocky to good free firsts, 90s. to 94s.; seconds, 89s.; good thirds, 87s. to 88s. per cwt. *Garnet* lac continues in good demand, both on the spot and for forward. Unworked AC has sold for 87s. net on the spot, and 200 cases AC are reported for October-December shipment at 87s. 6d. c.i.f. terms. Among the business by private treaty reported since the auctions are 400 cases unworked *Garnet* lac (AC) at 88s. per cwt. net, and a parcel of first *Button* lac at 94s. per cwt., usual terms.

SOY.—Dull and lower. Fair China has sold at 1s. 2½d. per gallon on the spot.

SPERMACEIN.—Market firm. From Liverpool considerable sales of *Chilian* spermaceti are reported, but the price has not transpired. The quotation is 1s. 5½d. to 1s. 6½d. per lb.

STICKLAC.—Good *Siam* lac, free from wood, is said to be quoted now at 95s. per cwt., but at the drysaltery auctions on Tuesday two cases were bought in at 90s. per cwt. without finding buyers.

SULPHUR.—The market is firm at 8l. 10s. to 8l. 15s. per

ton for foreign flowers, and 8l. 10s. for roll sulphur. On the Tyne the quotation is 125s. f.o.b. and rough *Sicilian* is held for 117s. per cwt. c.i.f. terms.

TAMARINDS.—At the auctions 300 barrels West Indian tamarinds were all bought in, the market being much depressed. Since then all the *Barbadoes* tamarinds out of the sale have been sold at lower prices—viz., 6s. 9d. per cwt.

TONQUIN BEANS.—A dull market. Prices are kept up with difficulty in the face of heavy arrivals. *Angostura* beans, fine bold frosted, are quoted at 7s. to 7s. 6d. per lb. nominally, *Pará* at 2s. to 4s. for ordinary foxy to fine black. Particulars of the parcel of *Angostura* Tonquin beans which were offered by auction at New York the other day have now been received. One account says that the whole parcel of 26,500 lbs. sold at prices ranging from 55 cents to 1.35 cents per lb., and it is added that practically the whole of this is believed to have been purchased by a tobacco manufacturer. On the other hand, private information is to the effect that the whole parcel of nearly 10 tons, damaged and sound, was bought in at from 2s. 6d. to 6s. per lb. for the syndicate. It is further reported that the balance of the available stock—some 40,000 lbs.—has since been sold to consumers, and that the market has advanced. There is a further parcel of 83 casks (about 50,000 lbs.) of beans damaged by the recent fire in New York, which has not so far been offered. It was announced for sale on October 2. The condition of this lot is described as very low.

TURMERIC.—Good *Madras* finger is very scarce, and has sold as high as 28s. per cwt. For split *Cochin* bulbs 12s. to 12s. 6d. per cwt. has been paid, and for fair *Bengal* finger 17s. to 17s. 6d. per cwt.

VANILLA.—Advices from Mauritius, dated September 10, state that the coming vanilla crop is estimated at 13,000 kilos. The market was bare of stock.

WAX (BEES').—The new crop of Italian beeswax is said to be a very poor one, and great scarcity prevails.

WAX (CARNAUBA).—The market is firm owing to the fact that the supply has been much reduced by the recent demand. For fine yellow carnauba as much as 62s. 6d. per cwt. has been paid, and for grey to medium from 35s. to 52s. 6d. per cwt.

WAX (JAPAN).—The market remains quiet but very steady at 43s. per cwt. for good hard pale squares.

## CHEMICALS IN THE NORTH OF ENGLAND.

THERE have been several changes made in the prices of heavy chemicals during the past week. On Tyneside the chief feature has been the sharp advance in the price of soda crystals. Soda ash has also been advanced, and prices are now quoted on the same basis as Liverpool prices—viz. at a price per ton according to strength instead of per degree as hitherto.

A quiet market with fair inquiry is reported from Liverpool. Soda ash has been advanced, and a better demand experienced for sulphate of copper.

BLEACHING-POWDER.—Firm at 7l. 5s. per ton on rails at makers' works, Widnes and St. Helens, and 7l. 7s. 6d. per ton f.o.b. Liverpool, in softwood casks; hardwood casks are quoted at 8l. 5s. per ton for American shipments, and 7l. 15s. per ton for any other countries. There is no change in the price of this article in the Newcastle market, softwood casks being quoted at 7l. 5s. per ton, and hardwood casks 7l. 10s. per ton, net cash, f.o.b. Tyne.

CAUSTIC SODA.—For contracts over 1892 a reduction of 10s. per ton under current prices would be accepted, buyers to have the benefit of any reduction that may be made in the market quotation during the currency of the contract. For present delivery prices are:—74-per-cent., 11l. 15s. per ton; 70-per-cent., 10l. 15s. per ton; 60-per-cent., 9l. 10s. per ton, and 60-per-cent. cream, 9l. 5s. per ton, net cash, f.o.b. Liverpool; 77-per-cent. white is quoted 12l. 5s. per ton, and 70-per-cent. 11l. per ton, net cash, f.o.b. Tyne.

**HYPOSULPHITE OF SODA.**—More doing in this article. Quotations are:—7l. 10s. per ton in 1-cwt. kegs, and 7l. per ton, in 5-7 cwt. casks, net cash, f.o.b. Tyne, in large quantities. For delivery in Manchester, prices are 8l. 2s. 6d. and 7l. 12s. 6d. per ton for kegs and casks, respectively. C.i.f. Liverpool kegs are 8l. per ton, and casks 7l. 10s. per ton.

**SODA ASH** has been advanced both in Liverpool and Newcastle. Caustic 48 per-cent., 5l. 6s. 3d. per ton, and 52-per-cent., 5l. 14s. 3d. per ton. Carbonated 48-per-cent., 5l. 9s. 9d. per ton; 52-per-cent., 5l. 19s. per ton; and 58-per-cent., 6l. 12s. 9d. per ton, f.o.b. Liverpool. Newcastle prices are: 48 per-cent. carbonate, 5l. 8s. 9d. per ton; 52-per-cent., 5l. 17s. 9d. per ton; 56-per-cent., 6l. 6s. 9d. per ton, f.o.b. Tyne.

**SODA CRYSTALS.**—In good demand, and several advances have taken place in this article in the Tyne market during the week. To-day's price is 3l. 3s. 6d. per ton in casks, gross weight, and 3l. 3s. 6d. per ton in 2-cwt. bags, net weight, f.o.b. Tyne. Packed in 3-cwt. barrels for export the price is 3l. 5s. to 3l. 10s. per ton, net weight, f.o.b. Liverpool.

**SULPHATE OF COPPER.**—Firm, with more sales reported. For prompt price is about 15l. per ton, f.o.b. Liverpool. For forward delivery 16l. to 16l. 10s. per ton is quoted.

**SULPHATE OF SODA.**—Steady, at 40s. per ton in bulk, and 50s. per ton ground and packed in casks, f.o.b. Tyne; 40s. to 42s. 6d. per ton, in bulk, quoted on rails at makers' works, and 55s. per ton, packed in casks, f.o.b. Liverpool.

### THE DUTCH MARKET.

AMSTERDAM, October 6.

**CUBEBS.**—A parcel of 45 bales was sold here this week at a price which has not transpired.

**GUM COPAL.**—Nearly 612 tons were offered here by auction this week. Part of this sold at 3f. to 40 75f. per 100 kilos., but 821 packages were bought in.

**GUM DAMAR.**—A quantity of 772 packages offered at auction was all sold at prices ranging from 5½ to 33¼ cents.

**CAJUPUT OIL.**—Twenty-nine baskets have been sold this week, but the price has not been made public.

### THE AMSTERDAM CINCHONA AUCTIONS.

(Telegram from Our Correspondent.)

AMSTERDAM, Thursday Evening.

At to-day's bark auctions the very large quantity of nearly 6,200 packages Java bark was offered. Of this quantity 4,937 packages sold at firm prices, though no advance can be reported, the average unit being 6 cents. per half kilo., or 1½d. per lb. Manufacturing barks in quill, broken quill and chips brought from 6 to 47 cents. (= 1d. to 8½d. per lb.), ditto root, from 8 to 45 cents. (= 1½d. to 8d. per lb.). For druggists' barks in quills, broken quills and chips up to 50 cents. (= 9d. per lb.) was paid, and for ditto root from 11 to 14 cents. (= 2d. to 2½d. per lb.). The principal buyers were the Auerbach, Amsterdam, and Brunswick works.

### PUBLISHERS' NOTICE.

THE CHEMISTS' AND DRUGGISTS' DIARY for 1892 is now being prepared. This work becomes every year more universally used as a desk companion in pharmacies and drug houses all over the world. The trade expect to find in it advertisements of every kind of druggists' articles, and we ask manufacturers and dealers to help us to provide such a compendium of matter by taking space in its advertisement section. Copy and blocks should be sent in as early as possible.

### LONDON DRUG STATISTICS.

THE following figures refer to the stocks of drugs in the port of London on September 30, 1891 and 1890, and to the imports and deliveries during the first nine months of the same years.

| Article                              | Stocks |        | Imported |        | Delivered |        |
|--------------------------------------|--------|--------|----------|--------|-----------|--------|
|                                      | 1891   | 1890   | 1891     | 1890   | 1891      | 1890   |
| Aloes . . . . . pkgs                 | 7 403  | 9 615  | 1,593    | 5 717  | 3,922     | 4,340  |
| " . . . . . gourd                    | 1,349  | 1,050  | 42       | 258    | 271       | 532    |
| Anise, star . . . . . ohts           | 98     | 54     | 425      | 14     | 374       | 81     |
| Arrowroot . . . . . cks              | 5 705  | 10,696 | 11,255   | 11,714 | 12,433    | 12,229 |
| " . . . . . bxs & tins               | 1 318  | 2,805  | 69       | 256    | 1,557     | 3,555  |
| Balsams . . . . . cks, &c.           | 2,183  | 2,423  | 1,129    | 65     | 1,111     | 657    |
| Bark (Cinchona), S. American cases   | 323    | 406    | 21       | 9      | 43        | 65     |
| " . . . . . bls, &c.                 | 26,007 | 26,523 | 8,272    | 5,744  | 8,456     | 11,296 |
| E.I., Ceylon, and Java . . . . . cks | 283    | 412    | 436      | 401    | 422       | 339    |
| " . . . . . bls, &c.                 | 23 078 | 26,553 | 31,337   | 34,495 | 32,335    | 32,016 |
| Borax . . . . . pkgs                 | 261    | 261    | 55       | 21     | 25        | 236    |
| Calumba . . . . . "                  | 675    | 1,411  | 124      | 430    | 748       | 885    |
| Camphor . . . . . "                  | 5,141  | 6,567  | 7,345    | 12,618 | 7,86      | 6,81   |
| Cardamoms . . . . . ohts             | 419    | 1,073  | 1,486    | 2,257  | 1,283     | 2,559  |
| Coccol. Ind. bgs, &c.                | 527    | 334    | 483      | 787    | 121       | 625    |
| Cream of Tartar cks                  | 10     | 20     | 16       | 86     | 29        | 76     |
| Cubebs . . . . . bgs                 | 120    | 144    | 14       | 211    | 268       | 377    |
| Dragon's Blood cks                   | 124    | 128    | 143      | 137    | 133       | 143    |
| Galls, China, &c. os                 | 2 094  | 3,822  | 1,731    | 5,063  | 1,753     | 2,595  |
| Gum & Pen. . . . . cks               | 3,841  | 5,643  | 8,346    | 7,623  | 7,999     | 6,718  |
| Gums—                                |        |        |          |        |           |        |
| Ammoniac pkgs                        | 49     | 60     | 15       | 6      | 29        | 37     |
| Animi & Copal pkgs                   | 5 021  | 6,351  | 9,476    | 7,763  | 12,874    | 11,066 |
| Arabic . . . . . "                   | 16,570 | 18,333 | 19,180   | 19,465 | 19,055    | 22,938 |
| Asafetida . . . . . "                | 674    | 605    | 35       | 492    | 194       | 253    |
| Benzoin . . . . . "                  | 2,994  | 2,438  | 2,527    | 2,747  | 2,953     | 2,402  |
| Damar . . . . . "                    | 6 212  | 7,263  | 3,101    | 7,550  | 4,477     | 5,233  |
| Galbanum . . . . . "                 | 37     | 34     | 45       | 24     | 36        | 24     |
| Gamboge . . . . . "                  | 17     | 58     | 175      | 219    | 188       | 224    |
| Guaiaconum . . . . . "               | 168    | 42     | 366      | 48     | 229       | 35     |
| Kino . . . . . "                     | 22     | 39     | 30       | 7      | 41        | 87     |
| Kowrie . . . . . tns                 | 1,25   | 730    | 2,720    | 1,518  | 2,252     | 2,091  |
| Mastic . . . . . pkgs                | 31     | 9      | 40       | 2      | 26        | 20     |
| Myrrh . . . . . "                    | 413    | 477    | 553      | 406    | 562       | 371    |
| Olibanum . . . . . "                 | 5,702  | 6,081  | 6,924    | 8,063  | 5,614     | 5,717  |
| Sandarac . . . . . "                 | 414    | 449    | 1,563    | 1,129  | 841       | 1,034  |
| Tragacanth . . . . . "               | 4,288  | 6,353  | 4,793    | 5,194  | 5,912     | 6,336  |
| Guttapercha . . . . . tns            | 2,641  | 2,108  | 1,995    | 2,424  | 1,448     | 1,510  |
| Indiarubber, E.I. "                  | 407    | 161    | 872      | 525    | 651       | 620    |
| Madagascar . . . . . "               | 112    | 13     | 263      | 128    | 229       | 147    |
| S. American . . . . . "              | 72     | 37     | 171      | 173    | 152       | 183    |
| African, &c. . . . . "               | 307    | 210    | 344      | 617    | 323       | 693    |
| Ipecac . . . . . cks & bgs           | 193    | 230    | 86       | 1,017  | 864       | 929    |
| Jalap . . . . . bls                  | 67     | 79     | 186      | 70     | 249       | 52     |
| Lac Dye . . . . . ohts               | 5,025  | 5,311  | —        | —      | 68        | 378    |
| Nux Vomica pkgs                      | 616    | 705    | 1,383    | 5,129  | 1,321     | 4,892  |
| Oils—                                |        |        |          |        |           |        |
| * Anise . . . . . os                 | 63     | 36     | 151      | 90     | 90        | 147    |
| * Jassia . . . . . "                 | 51     | 28     | 186      | 305    | 250       | 307    |
| Castor . . . . . ohts                | 128    | 136    | 557      | 1,145  | 526       | 1,220  |
| " . . . . . cks                      | 3,403  | 2,071  | 6,135    | 4,778  | 4,534     | 5,918  |
| Coccol-nut . . . . . tns             | 2,207  | 827    | 4,78     | 2,872  | 3,663     | 4,656  |
| Olive . . . . . cks, &c.             | 1,107  | 1,420  | 3,404    | 5,174  | 2,842     | 4,514  |
| Palm . . . . . tns                   | 11     | 9      | 48       | 45     | 44        | 66     |
| Rhubarb . . . . . ohts               | 512    | 745    | 745      | 1,112  | 1,071     | 1,216  |
| Safflower . . . . . bls, &c.         | 273    | 405    | —        | —      | —         | 174    |
| Sarsaparilla . . . . . bls           | 274    | 25     | 809      | 918    | 842       | 961    |
| Senna . . . . . bls, &c.             | 2,554  | 2,514  | 2,047    | 3,415  | 3,404     | 4,052  |
| Shellac, Orango ohts, &c.            | 25,352 | 32,400 | 18,988   | 16,051 | 29,664    | 24,431 |
| Garnet . . . . . "                   | 2,514  | 6,014  | 5,446    | 4,403  | 6,973     | 8,281  |
| Button . . . . . "                   | 5,806  | 5,441  | 8,233    | 6,092  | 7,976     | 6,811  |
| Total cks, &c.                       | 33,672 | 43,855 | 32,730   | 26,546 | 44,613    | 39,573 |
| Sticklac . . . . . ohts, &c.         | 407    | 2,172  | 232      | 53     | 2,056     | 952    |
| Gambior . . . . . tns                | 1,942  | 1,175  | 8,512    | 8,661  | 7,513     | 8,181  |
| Ouch . . . . . "                     | 2,769  | 3,013  | 1,671    | 1,553  | 1,815     | 1,449  |
| Turneric, Beng. "                    | 613    | 1,046  | —        | 26     | 539       | 374    |
| Madras, &c. . . . . "                | 105    | 791    | 60       | 184    | 451       | 549    |
| Total . . . . . tns                  | 718    | 1,837  | 60       | 210    | 990       | 923    |
| Vermillion, ohts, &c.                | 20     | 43     | 100      | 129    | 115       | 105    |
| Wax, bees' . . . . . bls & arns      | 1,114  | 687    | 2,693    | 3,693  | 2,333     | 3,737  |
| " . . . . . cks & os                 | 833    | 1,252  | 1,334    | 2,163  | 1,355     | 1,840  |
| " . . . . . ohts                     | 14     | 14     | 6        | 63     | 16        | 78     |
| " Japan . . . . . pkgs               | 467    | 1,319  | 157      | 481    | 872       | 857    |

\* Stock of aniseed and cassia oils lying at Smith's wharf and Brewers' quay are not included in this return.



### Memoranda for Correspondents.

*Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.*

*Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.*

*If you send us newspapers, please mark what you wish us to read.*

*Ask us anything of pharmaceutical interest: we shall do our best to reply.*

*Before writing for formulae consult the last volume, if you have it.*

*Letters, queries, &c., will be attended to in the order received.*

### Chemists and Specialities.

SIR,—The correspondence on the above should be of interest to the trade, dealing, as it does, in largely-advertised patent medicines and specialities, the profits on which, at the cutting prices now obtainable, give the ordinary chemist and druggist no encouragement to help directly or indirectly the demand for such, by displaying show-cards, &c.

The absurd Act of Parliament which makes it "illegal for any person" not duly qualified by the Pharmaceutical Society, to sell such poisons as morphia, &c., and yet allows anyone out of the trade to deal indiscriminately in compounds containing such, to the detriment of legal sellers, is, to a great extent, responsible for the unprofitable and peculiar position proprietaries now occupy in a chemist's business, and one might wonder how a society which seems inert or helpless to promote the interests of its members is supported, or even tolerated, in these go-ahead times.

A universal combination of chemists may some day successfully cope with the patent-medicine question, and control the prices somewhat by restricting the sale of such as contain poisons to the trade; but, up to the present, chemists seem fatally lethargic and unwilling to assert themselves.

Yours respectfully,

October 4.

VIVIMUS. (133/45.)

SIR,—Mr. Ryder apparently writes with a good deal of feeling. Let him hear a manufacturer's reply.

The manufacturer sees no reason why he should decline to give a larger discount for a larger quantity than a small, and he sees the following things in favour of doing so:—

It is far more convenient to have one large agent than half-a-dozen small ones. In nine cases out of ten with one agent there is no necessity to send a traveller so often to the town. The agent, in fact, often prefers to remit and order by post, and so travelling expenses are saved. By a single agency, instead of half-a-dozen in a place, labour is saved. It would be much more work to send six small lots of goods to six different people than one consignment equal to the bulk of the six collectively to one man only.

The risk is minimised in giving credit to one, instead of half-a-dozen, as well as the collecting expense, which is sure to be entailed by a number of small accounts. A collector or traveller at periodical times becomes then an absolute necessity.

The remedy for meeting competition lies in the complainers' hands.

Manufacturers, in furthering the sale of their articles, in the first place sacrifice immediate profit largely through going to the expense of advertising; afterwards they make it up by getting orders for them.

Let the man who only gets 10 per cent. discount, because he cannot get through the quantity of goods that would entitle him to 20 per cent. from the manufacturer, sell from the very first at just the same price as does his larger competitor. He will then gradually acquire enough sale of the article to enable him to take the larger quantity.

The writer emphatically maintains that this is feasible in most cases, and that the man who only buys small quan-

ties has no more reason to complain of his loss thereby than the manufacturer himself should he bemoan the money he spends in advertising. Sacrifices must be made to work up a trade, and it will generally be found that successful traders have made sacrifices in the beginning.

The manufacturer is often to blame by not letting well alone. He gets a good agent for his goods. In an evil hour he sends a traveller, stimulated by a commission on his sales, to the district. That traveller, only seeking his own ends, over-persuades smaller men to take more of the article he is pushing than they can get through. Perhaps they take two years to do it, then they feel they cannot in future order so much, and get disgusted when they find by ordering less they get a smaller discount.

The traveller has much to answer for in this way, and does a lot of harm.

But to expect much when little is given is mere petulance. A small order benefits the manufacturer, as a rule (for there may be exceptional circumstances) but little, and it is not reasonable to expect any extraordinary concession on his part for it.

A MANUFACTURER. (133/31.)

### Chemists and "Cutting."

SIR,—I rejoice to see the enthusiasm aroused over the various proposals to resist the cutters and co-operators. All virtues, we are told, should begin at home. Am I too presumptuous in suggesting to the 2,000 members of the C.A.M.W.A.L. that they could prove their sincerity by raising the purchasing prices of aerated waters, and thus give a chance to other and competing manufacturers to get a fair return for their experience and capital? I have known the trade for more than thirty years, and on a large scale, and I maintain that first-class aerated waters cannot be sold profitably at the prices now charged by the association. I shall not follow your correspondents in sentimental statements of the injury that has already been inflicted on a fluctuating and much harassed trade by such wholesale co-operation and slaughtering of prices.

Yours truly,

VERB. SAP. (132/64.)

### Sir Morell Mackenzie's Chemist.

SIR,—Will you allow me a little space in your valuable journal in which to reply to my rather unkind critic, "C. H.," whose letter appeared in your issue of October 3. In the first place I trust you will give me credit for correctness when I write that the notoriety I seem to have attained has been none of my own seeking. The first report in our local paper came as a surprise to me, and the paragraph in *Tit-Bits* vexed me, as I have never tried to impress anyone with the idea that I am a duly qualified chemist. But it might interest "C. H." and others to know that for twenty-five years I have been more or less connected with the ordinary routine of a chemist's business, and a five years' apprenticeship, followed by seven years' consecutive employment as assistant, after which manager for a chemist for some time, makes me look upon myself as something more than "C. H." would represent to your readers.

I admit I have not been able to satisfy the requirements of the Pharmaceutical Society by answering correctly some of their ridiculous problems in arithmetic, and other questions altogether foreign to the practical working of an ordinary counter trade; but I think I can lay claim to having always satisfied my employers—one of whom is a Major man; and I do consider myself a little more entitled to what benefit I am now receiving than my next-door neighbour—who being a greengrocer, stocks almost everything in everyday call, such as salts, senna, magnesia, pills, insect-powder, &c.

Even now I am not doing all I might, as by converting my business into a company, and employing a qualified man as manager, I might do more; but such is not my wish. But I do consider that, after having spent the best years of my life in the trade, at much expense to my parents, and little remuneration to myself, I am entitled to what little benefit I am now receiving.

Had Sir Morell's prescription included any of the scheduled poisons, he would at once have been referred to one of the chemists of the town. As it was, he had no difficulty

in helping himself, or, had I been at home, I should have had no hesitation in waiting upon him and his distinguished party.

I am not one of those individuals who, being unqualified, sail as close to the wind as possible, only I do consider I am more entitled to do what I am doing than grocers, iron-mongers, &c.; and so long as chemists become photographers and tobacconists, photographers and tobacconists will consider themselves justified in selling drugs.

Thanking you very much in anticipation, and relying upon your love of fair play, even to unfortunates such as myself,

Believe me, yours faithfully,  
J. W. PORTER.

Newland Street, Coleford.

#### Arsenical and other Weed-killers.

SIR,—It is a so frequent cry by certain chemists that the Legislature should give them increased monopoly in drugs and chemicals, that one is surprised they do not carefully look after such as they already possess, and see that the law is not evaded in the particular direction where the utmost deference should be paid to it. It hedges round the sale of arsenic in the most particular manner, and yet arsenical weed-killers are sold by nurserymen all over the country in the most open manner.

The Society (I am informed by the person fined) has inflicted in a recent case a fine of over 5*l*. (which was paid to avoid "further proceedings") for the sale by a nurseryman of such an arsenical solution as, being sent out unlabelled, caused death; and yet the same nurseryman is still dealing out his pints, quarts, and gallons of the solution.

Surely there is something wrong here, and the Society is neglecting its duty to the public by not at once putting a stop to this most dangerous practice. As things are at present, the Society moves of its own sweet will, and when it has no sweet will, such things pass unheeded. I suggest that when gross infractions such as this are brought to the notice of the Pharmaceutical Society, they should be compelled to take proceedings.

From the traders' point of view such a course would divert to its proper channel the trade in all poisonous weed-killers.

Your obedient servant,  
SILEX. (136/54.)

#### A Tough One.

SIR,—About two months ago I had occasion to make some glycerinnm acid. tannic. P.B., and, wanting to cool it quickly, I poured it whilst still warm into a 10-oz. beaker, made of toughened glass, and was surprised to find that in a few minutes the outside of the glass was covered (to the depth of the liquid) with a distinct white furry crystallised moisture, observing which I poured the liquid into a small porcelain jug, and allowed it to finish cooling there.

The beaker before using was perfectly sound, clear, and bright, but since then has been quite rough, both on the inside and outside having the appearance of crackled glass, although it still holds any cold liquid—even S.V.R.—without showing a sign of leakage, and is in constant use as before.

Has porosity ever been noticed before in toughened glass with any hot liquid?

The strange part of it to me is that the glass has never even sweated at any other time before or since.

I am, yours truly,

Bridgend, September 29. JESTYN. (38/17.)

[In the expansion of the glass caused by the hot liquid, and the rapid contraction by the cold water, we have two forces which between them overcome the integrity of the beaker. The cold layer outside was stubborn enough not to give way to the greater force of the warm and expanding inner layer, so there was nothing for it but to crack.—ED.]

#### The Edinburgh Tincture-press.

SIR,—At the time of sending you copy for the above I was unaware that Messrs. Balldon & Sons had a press identical with mine, but I am pleased to hear of the coincidence, and

learn that theirs has been in use for thirty years. It only proves the general excellence of the press. I have reason to think that a press of this description should have been put before your subscribers long ago, as I have had more than one inquiry from the trade for further particulars, maker's name, &c.

I am, yours truly,  
12 Murano Place, Edinburgh,  
October 6. W. RICHARDSON.

#### Aniseed-gin.

SIR,—In reply to 129/4, I beg to submit the following formula for aniseed-gin. It was given to me by a West-end doctor as a substitute for an anisette cordial (made in Amsterdam) which he is in the habit of prescribing as an infants' carminative:—

|                     |    |    |    |    |         |
|---------------------|----|----|----|----|---------|
| Sp. anisi (1 in 16) | .. | .. | .. | .. | 3 viij. |
| Tinct. card. co...  | .. | .. | .. | .. | 3 j.    |
| Glycerini           | .. | .. | .. | .. | 3 iss.  |
| Genevæ pur          | .. | .. | .. | .. | 3 iss.  |

M.

Dose: For an infant 2 to 5 drops in a teaspoonful of warm water after nursing.

Yours truly,  
59 North Street, Brighton,  
October 6. C. S. ASHTON.

#### DISPENSING NOTES.

*The opinions of practical readers are invited on subjects discussed under this heading.*

#### Ext. Glycyrrh. in Mixtures.

120/7. I have had extensive experience in sending out mixtures containing ext. glycyrrh. liq., and they are mostly muddy. Worse than that, the bottles for repeat mixtures were handed in with masses of the extract gone solid. The proportions of the extract to the rest of the mixture was sometimes as much as 25 per cent. After observation, it was found that, by being exact in adding the extract as the very last ingredient, most of the trouble was overcome. The "shake the bottle" label should never be omitted.

W. R. K. (128/39.)

#### Iodated Soap.

How should the following be dispensed, so as to appear like a thick cream when finished?—

|                |    |    |    |    |      |
|----------------|----|----|----|----|------|
| Potass. iodid. | .. | .. | .. | .. | 5ij. |
| Saponis        | .. | .. | .. | .. | 3ij. |

M.

Ft. ungt.

PAT. (128/40.)

[The only plan is to make a cream on the B.P. lines for lin. pot. iodid. c. saponê. This is what is done with certain Buxton prescriptions and is what is intended; in fact, some Buxton chemists give the liniment when they get such prescriptions.]

#### Caffeino and Salicylato Mixture.

SIR,—We should be very much obliged if you could help us in a little dispensing difficulty through your columns. A prescription was handed in to us as under:—

|                |    |    |    |    |        |
|----------------|----|----|----|----|--------|
| Sod. salicyl.  | .. | .. | .. | .. | 3 ij.  |
| Caffein. citr. | .. | .. | .. | .. | 3 ij.  |
| Aq. ad         | .. | .. | .. | .. | 3 xij. |

M.

When first dispensed it is clear like water, but very soon fine crystals appear and render the whole mixture thick and white. Our customer told us that it had been dispensed before, and sent out nearly clear, but with a pink sediment at the bottom. If you could explain this, and show us the way of overcoming the difficulty, you will greatly oblige.

Yours faithfully,

H. M. A. (128/15.)

[The result might be anticipated, although sodio-caffeine salicylate is soluble in its own weight of water. The mixture dispensed as written becomes, after a brisk shake, solid in two minutes; and without disturbance crystals are seen to form a few seconds after the separate solutions are mixed, giving a beautiful example of crystallisation. In any case the mixture becomes solid through the bulkiness of the salicylic acid, for it is this that separates. It is well known that caffeine citrate is not a true salt; its aqueous solution is strongly acid, and contains free citric acid. This splits up some of the sodium salicylate—how much in this case we have not had the opportunity to determine. The decomposition is prevented by doubling the quantity of sodium salicylate. A drachm of citrate of soda also prevents it, and would be a legitimate addition failing an opportunity of communicating with the prescriber. But the best plan of all is simply to use pure caffeine, which dissolves in the solution of salicylate of soda. The mixture with double the quantity of salicylate is pinkish. Probably this accounts for the colour in the first instance, or the dispenser may have dissolved the precipitate with alkali.]

#### Quinine Iodide in Mixture.

SIR,—I often see curious prescriptions in THE CHEMIST AND DRUGGIST. I send the following, written by a rather celebrated doctor in Newcastle:—

|                  |    |    |    |    |          |
|------------------|----|----|----|----|----------|
| Ammon. brom.     | .. | .. | .. | .. | 3ij.     |
| Ammon. iodid.    | .. | .. | .. | .. | 3j.      |
| Quinine iodid.   | .. | .. | .. | .. | gr. xxv. |
| Tr. belladonnae  | .. | .. | .. | .. | 3j.      |
| Ext. ergot. liq. | .. | .. | .. | .. | 3j.      |
| Sp. ammon. ar.   | .. | .. | .. | .. | 3ss.     |
| Tr. nuc. vom.    | .. | .. | .. | .. | 3ij.     |
| Aq. ad           | .. | .. | .. | .. | 3vij.    |

Coch. j. mag. ter die ex aqua.

I should like to know how to dissolve the iodide of quinine, which falls down like a piece of putty.

Yours faithfully,

T. F. WALKER.

[The only way to obviate the objectionable appearance of the mixture is to rub the iodide fine with a little water, add half-an-ounce of mucilage of acacia, mix all the rest of the ingredients with 6 ozs. of water, and add this mixture to the iodide and mucilage with constant stirring.]

#### MISCELLANEOUS INQUIRIES.

A large number of correspondents ask us for formulæ and other information already published in this journal. It is not fair to more careful readers that we should frequently repeat such information, and so long as the back numbers containing the formulæ or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 4d. each.

#### 128/66. J. O.—Terebinthinate Starch Glaze:—

|            |    |    |    |    |          |
|------------|----|----|----|----|----------|
| Spermaceti | .. | .. | .. | .. | 1 oz.    |
| Turpentine | .. | .. | .. | .. | 1 "      |
| Borax      | .. | .. | .. | .. | 1 "      |
| Gum arabic | .. | .. | .. | .. | 1 "      |
| Soft soap  | .. | .. | .. | .. | 1 drachm |
| Glycerine  | .. | .. | .. | .. | 2½ oz.   |
| Water      | .. | .. | .. | .. | 1½ "     |

Dissolve the soap in ½ oz. of water, and shake this up with the turpentine. Dissolve the borax and glycerine in the remainder of the water. Now powder the spermaceti with the aid of a little spirit, add the powdered gum to it, and mix smartly with 2 oz. of the borax solution, next the turpentine emulsion and the remainder of the borax solution *secundum artem*.

128/45. Sigma.—(1) The formula communicated by Mr. R. Wright to THE CHEMIST AND DRUGGIST, March 21, 1891, provides an excellent marking-ink. (2) The rum is most likely the cause of the change of colour. Use proof spirit, with a little more flavouring and ½ grain of salicylic acid to the ounce.

127/38. *In Vino Veritas*.—(1) It is undesirable to mix antipyrin, quinine, and ferrous carbonate together as a Neuralgic Powder. Antipyrin should always be given alone, that is, without any other substance of the same physiological action. The same remark really applies to quinine when used for neuralgia, but no harm can be done by combining it as in the following:—

|                               |    |    |    |    |        |
|-------------------------------|----|----|----|----|--------|
|                               |    |    |    |    | Grains |
| Sulphate of quinine           | .. | .. | .. | .. | 2      |
| Saccharated carbonate of iron | .. | .. | .. | .. | 20     |

To make a powder.

One to be taken every four hours.

The following powder is exceedingly popular, and apparently is very beneficial:—

|                |    |    |    |    |           |
|----------------|----|----|----|----|-----------|
| Ferri peroxid. | .. | .. | .. | .. | gr. xv.   |
| Pulv. rhei     | .. | .. | .. | .. | gr. viij. |
| " zingib.      | .. | .. | .. | .. | gr. iv.   |

To make a powder.

One three times a day.

(2) Rat-pasto.—We do not see any use in mixing arsenic, strychnine, nux vomica, and perchloride of mercury together to make a rat-paste. One of the poisons is quite enough. Try the following:—

|                        |    |    |    |    |           |
|------------------------|----|----|----|----|-----------|
| Powdered squill        | .. | .. | .. | .. | 2 oz.     |
| Sulphate of strychnine | .. | .. | .. | .. | 1 drachm  |
| Roast beef dripping    | .. | .. | .. | .. | 3 oz.     |
| Oil of anise           | .. | .. | .. | .. | 10 drops  |
| Rose water             | .. | .. | .. | .. | 2 drachms |

Put the sulphate of strychnine in a mortar, and rub it down fine; then add the water and oil of anise, continue the titration, adding the powdered squill, and mass with the beef dripping.

Honey is not such a dainty to rats and mice as dripping.

128/59. *Aurum*.—The cutting from the *Echo* is pure nonsense.

128/61. *Northumberland*.—We fear that you cannot put the old indiarubber tubing to any useful purpose. If you have much of it, try to get a manufacturer to take it off your bands.

128/62. *Pepsin*.—We should have been pleased if you had let us know the formulæ for Acid Glycerine of Pepsin, which have proved a failure in your bands. The best preparation is made by digesting the fresh stomach, or scrapings from the stomach, in an acidulated menstruum; but that is a process which few care to try. The following has always given us good results:—

|                          |    |    |    |    |            |
|--------------------------|----|----|----|----|------------|
| Pepsin                   | .. | .. | .. | .. | 320 grains |
| Dilute hydrochloric acid | .. | .. | .. | .. | 1½ oz.     |
| Chloroform-water         | .. | .. | .. | .. | 6½ "       |
| Glycerine                | .. | .. | .. | .. | 20 "       |

Macerate the pepsin in the acid and water for two days, then add 12 oz glycerine, and macerate for other two days, agitating occasionally meanwhile. Then set aside for a few days to allow insoluble matter to settle decant the liquor, and filter the remainder. Add a drachm or two of sherry to flavour.

128/58. *C. B. G.*—Insect-powder is not harmful to birds, and may be used in their cages as a parasiteicide. The birds should have frequent baths, and a rusty nail should be placed in their drinking-water.

128/46. *W. E. W.*—Try the addition of a drachm of soap to formula 109/3. It came out all right in our experiments.

128/70. *Fossiline*.—(1) Paste for Brown Leather Boots is simply furniture-paste coloured with phosphine, or with caramel. We prefer the former colouring. (2) Perhaps the varnish used by bookbinders for cleaning and polishing calf is a solution of paraffin in benzene. We have not seen it. (3) Use chloroform to Remove Grease Spots from Books. Make a circle, with water round the spot, put a pad of blotting-paper below it, and let chloroform fall upon the spot drop by drop.

128/44. *J. B. T.*—Several aniline colours—orange, pink &c.—are now used for colouring aerated waters, and are offered by the essence houses. Little, if anything, has been published regarding the advantages and disadvantages of such colours, or of their nature.

129/5. *Senex.*—*Edelweiss* is *Gnaphalium leontopodium* (Compositae).

132/32. *T. L.*—The "foot-note" seems to us quite intelligible.

50/91. *A. G. C. (Dalston).*—Your letter has been returned through the Dead Letter Office.

219/91. *Baking Powder.*—There is nothing mysterious about the sample of Cheap Baking Powder which you send us. We have repeatedly stated that alum and acid-sulphate of potash are commonly used in baking-powders. In your sample it is the acid-sulphate of potash which takes the place of tartaric acid. This salt is known as "tartaric-acid substitute," or, when mixed with a little starch, "tartar-aline." We make out your preparation to be:—

|                         |    |    |    |       |
|-------------------------|----|----|----|-------|
| Acid-sulphate of potash | .. | .. | .. | 7 oz. |
| Bicarbonate of soda     | .. | .. | .. | 8 "   |
| Ground rice             | .. | .. | .. | 1 lb. |

Mix.

127/32. *Revilo.*—(1) The Cloth Cleaner is simply a solution of curd-soap in solution of ammonia. (2) The Lemonade Powder is a mixture of equal parts of sugar and cream of tartar. In future please give fuller particulars about any articles which you may send for examination, such as the makers, price, and how put up.

119/63. *Buckrose* sends us samples of Ink which he has made with satisfactory results for over thirty years. He has, however, recently used Ghatti gum, with the result that when the ink stands for a time it becomes gelatinous, being entirely useless as an ink. The formula he has used is:—

|                  |    |    |    |            |
|------------------|----|----|----|------------|
| Aleppo galls     | .. | .. | .. | 12 lbs.    |
| Sulphate of iron | .. | .. | .. | 4 "        |
| Ghatti gum       | .. | .. | .. | 3 "        |
| Water            | .. | .. | .. | 12 gallons |

Boil for three minutes, and when cold add salicylic acid 6 drachms.

We have tried various methods to get the samples turned to a useful purpose, but cannot say with any great success. We have certainly managed, by heating with about a third of its bulk of lime water, to overcome the gelatinous consistency; we should rather, however, recommend it being used up for harness polish or something of that sort. We have also experimented with various samples of Ghatti gum in making the ink, and find that they do not all gelatinise alike. We have obtained nice inks by dissolving the gum in lime water, using about one-fourth of the bulk of the water required for the ink, and adding the mucilage to the boiled mixture of galls and iron in the rest of ordinary water. We should also recommend the use of less gum than is given in the formula.

119/35. *London.*—(1) Hair Lotion. Try this:—

|                   |    |    |    |          |
|-------------------|----|----|----|----------|
| Quin. sulph.      | .. | .. | .. | gr. vi.  |
| Acet. canthar.    | .. | .. | .. | 3ij.     |
| Tr. arnica        | .. | .. | .. | 3iv.     |
| Glycerini         | .. | .. | .. | 3j.      |
| Ol. myrica        | .. | .. | .. | 3ss.     |
| Spt. tenuior      | .. | .. | .. | ad 3xij. |
| Perfume to fancy. |    |    |    |          |

Dissolve the quinine in acetum cantharides and add to the other ingredients, shake up with kaolin, and filter.

(2) Books on Soap-making: Cameron's "Soaps and Candles" (Churchill), 7s. 6d.; Watt's "Art of Soap-making; (Lockwood), 9s. (3) Plastic Emollient Cream: White wax and spermaceti, of each 1 drachm, almond oil, 1 oz."

lanolin, 3 drachms; borax, 6 grains; water, 5 drachms. Perfume with bergamot, rose, and neroli. (4) Tooth Scap:—

|                    |    |    |    |        |
|--------------------|----|----|----|--------|
| White curd soap    | .. | .. | .. | 2 lbs. |
| Orrie-root         | .. | .. | .. | 4 oz.  |
| Precipitated chalk | .. | .. | .. | 6 "    |
| Storax             | .. | .. | .. | 1 "    |
| Rose water         | .. | .. | .. | q.s.   |
| Ol. rhodii         | .. | .. | .. | 3j.    |
| „ jasmii           | .. | .. | .. | 3j.    |

Cut the soap fine and incorporate with the other ingredients by well beating in a mortar, using sufficient rose water to form a stiff mass; then, placing the mass between two blocks of wood in a tincture-press, submit to strong pressure over night; afterwards cutting into suitable sizes and shapes.

(5) Very likely, when we find time.

134/7. *Progress.*—(1) Perfuming Theatres.—March 7, 1891, page 354. (2) Perfuming Programmes.—Sprinkle the perfume on sheets of blotting-paper; put the programmes between the sheets, and the whole in a closed box.

133/73. *T. B.*—(1) Teething-powders.—For children six to twelve months old, 1 grain of calomel and the same of sugar is generally given. (2) Worm powders.—A mixture of santolin 1 part and sugar 2 parts. Two grains of this for children of from 1 to 4, and then 1 grain more for each year up to 14. Adult dose, 15 grains.

133/61. *Vigor.*—We have effectually got rid of Ants this past summer by liberal application of turpentine. They object to that more than to paraffin.

131/66. *C. T. D.*—French Chalk is insoluble in liquids. When treated with strong acids it is decomposed, silicic acid being set free. If the chalk is to be used for cloth, most likely the intention is to mix it with starch or dextrin.

132/57. *Juvenis.*—(1) Read the Educational Number. (2) You should not have made syr. ferri iodidi with heat. If the brown colour is not due to burnt sugar, a bunch of fine iron wire put into it will make it right. After that, strain, and add 1 grain of hyposulphite of soda to the pound.

#### LEGAL QUERIES.

131/45. *Nobler.*—It is not illegal for an unqualified person to sell poisons by wholesale.

131/29. *Maranta.*—You would be justified in adding essence of lemon to seidlitz powders, and selling them as "lemon-flavoured seidlitz powders." If you make them stronger than the official form you should likewise indicate that on the label, as you are not selling an article of the nature, substance, and quality demanded.

131/36. *Paraffinum Moll.*—The Chesebrough Company have the exclusive right in the title "vaseline." It is quite certain that you would infringe their trade-mark if you were to sell as vaseline any other product than theirs. We consider that if you buy their article in bulk you have a right to resell it in small quantities, using their registered title; but the point is not entirely free from doubt. The same consideration applies to vaseline pomade.

134/70. *Sundryman.*—See answer to *Paraffinum Moll.*

#### Information Wanted.

210/91. What is Galipanis? Said to be a red powder for making an eye-lotion.

129/34. Hamburg Plasters: Where obtainable?



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Labels indestructible and of elegant appearance, forming an even surface with the glass or porcelain. The Jars of best porcelain, thoroughly greaseproof. The Bottles hand-made and of superior quality. Both are unsurpassed by anything in the market in every respect. Also a CHEAPER sort of Bottles and Jars, with labels equally indestructible, but very plain, especially suitable for Dispensaries, &c. Intending Buyers are requested to inspect Samples at

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*A STANDARD LIST OF LABELS for Chemists' Shop Bottles, Jars, and Drawers will be sent free on application.*

A STOCK OF SMALL SETS ALWAYS ON HAND.

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# PURE OXIDE OF ZINC (HARRIS'S)

SPECIALLY PREPARED FOR PHARMACEUTICAL PURPOSES.

**PHILIP HARRIS & CO., LIM.,** Manufacturing Wholesale and Export Chemists, **BIRMINGHAM.**

## APOLOGY.

I Hereby APOLOGISE to the PROPRIETOR of CRYSTAL PALACE MARKING INK for selling another Ink for substitution of Crystal Palace John Bond Marking Ink, and promise to do so no more, giving you full permission to stop legal proceedings, and to publish as you may see fit this my apology.

EDWARD ABRAHAM SMITH, } Retail  
STEPHEN SMITH, } Stationers.

No. 182 Hackney Road, 16/9/91.

## THE NEPHEW'S APOLOGY.

I, JAMES WILLIAM CARTER, of CAMDEN GROVE, PECKHAM, to stop legal proceedings, hereby APOLOGISE for using the word "Bond" on my Marking Ink, and promise to discontinue it at once, and promise to do so no more.

W. CARTER.

Dated this 15th day of March, 1878.

# MAKE NO MISTAKE.

THE Materials employed to superfat "Vinolia" Soap are entirely different and distinct from the mineral oils and saponifiable and unsaponifiable animal fats incorporated with the superfatted imitations of "Vinolia" Soap that have been foisted on the market since the introduction of that popular article.

# BLONDEAU ET CIE.,

Ryland Rd., LONDON, N.W.

# DUNCAN, FLOCKHART & CO., EDINBURGH.

## CASCARA SAGRADA CAPSULES.

Each Capsule equal to  $\frac{1}{2}$ ,  $\frac{1}{4}$ , or 1 teaspoonful of Fluid Extract of Cascara Sagrada. They can also be had in combination with  $\frac{1}{2}$  or 1 grain of EUCONYMIN. In Boxes at 1/6 and 2/6; 14/- and 24/- per dozen. (Also in Bulk.)

## BLAUD'S PILL CAPSULES.

In 3 sizes, equivalent respectively to 1, 2, or 3 Blaud's Pills.

These Capsules differ from all others, and have advantages which no others possess. They are made from Pure Unoxidised Carbonate of Iron by special process. They are so prepared that, while they retain indefinitely the full efficacy of fresh Blaud's Pills, they have no tendency to become hard and insoluble by keeping, as the pills often do. They are small in size. Owing to the special process adopted by D. F. & Co., the 3-pill Capsule is hardly larger than a single Blaud's Pill. They are soft and flexible, and much more easily swallowed than pills.

They can be had in combination with Arsenic, Nux Vomica, &c. In Boxes at 1/-, 1/9, and 2/6; 8/-, 15/-, and 22/- per dozen. (Also in Bulk.)

## EASTON'S SYRUP CAPSULES.

Each Capsule equivalent to 20, 30, or 60 minims of Easton's Syrup.

In Boxes at 1/-, 1/9, and 2/6; 16/-, 17/-, and 24/- per dozen. (Also in Bulk.)

## SYRUP. HYPOPHOS. COMP. (Duncan's.)

Some time since we had several samples of well-known SYRUP. HYPOPHOS. COMP. analysed by Mr. D. B. DOTT, F.R.S.E., F.I.C., Ph.C., and in no one case did he find so large a proportion of the active constituents as is found in our preparation by a precisely similar analysis—which analysis is an absolute proof that the proportions of the different ingredients which we state are in our Syrup ARE ACTUALLY PRESENT. We, therefore, submit that from the use of our Syrup the best results may be confidently anticipated.

In proof of our statements we subjoin the report of Analysis referred to.

NOTE.—Our Syrup will darken in colour by lengthened keeping; and so must every Syrup which contains a similar proportion of FERROUS Hypophosphite.

"Analysis of SYRUP. HYPOPHOS. COMP. (grains per drachm)."

|                                                                                                                      | Duncan's | No. 1 | No. 2 | No. 3 | No. 4 |
|----------------------------------------------------------------------------------------------------------------------|----------|-------|-------|-------|-------|
| Hypophosphite of Quinine ..                                                                                          | ·20      | ·14   | ·11   | ·69   | ·12   |
| " " Iron .....                                                                                                       | ·77      | ·72   | ·10   | ·28   | ·16   |
| " " Manganese ..                                                                                                     | ·27      | ·22   | ·00   | ·16   | ·08   |
| " " Calcium....                                                                                                      | 1·04     | ·00   | ·83   | ·01   | ·15   |
| " " Potassium..                                                                                                      | 1·00     | ·68   | 1·48  | ·24   | ·29   |
| " " Sodium ....                                                                                                      | 1·53     | 1·45  | 1·54  | ·29   | ·29   |
| The quantity of STRYCHNINE present was not determined. Our Syrup contains $\frac{1}{100}$ grain in each fluid drachm |          |       |       |       |       |

WHOLESALE FROM WM. EDWARDS & SON, 157 QUEEN VICTORIA STREET, LONDON, E.C.

# EASTON'S SYRUP (CURTIS)

THE ORIGINAL MANUFACTURERS.

Each fluid drachm contains one grain of Quinine, two grains of Iron, and the 32nd part of a grain of Strychnine.

This SYRUP (prepared under the direction of the late Dr. EASTON) has been prescribed both at Home and Abroad for more than a quarter of a century, and pronounced by the highest Medical authorities to possess Tonic powers far exceeding all other preparations. It is always uniform in character, and, owing to its careful mode of preparation, has never been known to produce any unpleasant symptoms.

SUPPLIED IN ORIGINAL BOTTLES ONLY, 2/-, 3/6, & 6/- RETAIL.

## CURTIS & CO.'S GRANULAR EFFERVESCENT ANTIPYRIN (Originated by CURTIS & CO.) PREPARATIONS.

|                              |                 |                           |                  |
|------------------------------|-----------------|---------------------------|------------------|
| CAFFEINE CITRATE ... ..      | 3 grains to 3j. | SODA SULPHATE ... ..      | 10 grains to 3j. |
| CAFFEINE HYDROBROMATE ... .. | 3 " "           | SODA SALICYLATE ... ..    | 10 " "           |
| LITHIA CITRATE... ..         | 5 " "           | POTASH CITRATE ... ..     | 10 " "           |
| LITHIA BENZOATE ... ..       | 5 " "           | PHENACETIN ... ..         | 5 & 10 " "       |
| LITHIA SALICYLATE ... ..     | 5 " "           | QUININE SALICYLATE ... .. | 1 " "            |

## CITRATE MAGNESIA,

And all other Granular Preparations.

SPECIAL ATTENTION GIVEN TO EXPORT ORDERS.

SEE THAT THESE PREPARATIONS BEAR OUR NAME.

PHARMACEUTICAL CHEMISTS, 48 BAKER STREET, LONDON.

# LOYD'S LEICESTER



The manufacture of Soluble Pearl Coated Pills was first introduced into Leicester by Mr. T. HOWARD LLOYD (18 years partner in the firm of JOHN RICHARDSON & CO.), and they are now made with the most complete and modern machinery, ensuring accuracy and uniformity, by

**T. HOWARD LLOYD & CO. HIGH STREET, LEICESTER.**

## SOLUBLE PEARL COATED PILLS

### SPECIAL NET PRICES FOR CASH WITH ORDER, IN TEN-GROSS TINS.

|                                     | Per Gross |
|-------------------------------------|-----------|
| Pil. Aloes et Ferri, P.B. .. .. .   | 0 6       |
| „ Colocynth. Co., P.B. .. .. .      | 0 11      |
| „ Colocynth. et Hyos., P.B. .. .. . | 1 1       |
| „ Rhei Co., P.B. .. .. .            | 0 6       |

#### APERIENT.

|             |     |
|-------------|-----|
| 105 .. .. . | 0 6 |
|-------------|-----|

*Each Pill contains  $\frac{1}{2}$  gr. of Calomel.*

#### ANTIBILIOUS.

|                                                     |     |
|-----------------------------------------------------|-----|
| 62 Hydrarg. Pil., Ext. Coloc. Co., Pil. Rhei Co. .. | 1 0 |
| 262 Podophyllin, Ext. Coloc. Co., Ext. Hyosc., ..   | 1 2 |

#### COUGH.

|                                              |     |
|----------------------------------------------|-----|
| 164 Pulv. Ipecac. Co., Gum. Ammon., Pulv. .. | 0 7 |
|----------------------------------------------|-----|

#### CASTOR OIL.

|             |     |
|-------------|-----|
| 239 .. .. . | 0 6 |
|-------------|-----|

#### TONIC.

|             |     |
|-------------|-----|
| 371 .. .. . | 0 6 |
|-------------|-----|

*(Blaud's Formula, Martindale's improved.)*

#### "LITTLE" APERIENT.

|                                                   |     |
|---------------------------------------------------|-----|
| 453 Aloin, Podophyllin, Ext. Hyosc., Jalapin., .. | 5 0 |
| Ext. Nucis Vom., Capsicu. .. .. .                 |     |

Samples of the above, with our Complete List, sent on application.

In ordering, please note Address, and see that the Label on each Bottle or Tin corresponds with the above Block.

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WHOLESALE DRUGGISTS AND MANUFACTURING CHEMISTS,  
44, 46, and 48 MAGDALEN STREET, NORWICH.

PURE CHEMICALS.

MANUFACTURERS

**PHARMACEUTICAL**

IMPORTERS OF ESS. LIMONIS

CRUDE DRUGS AND CHEMICALS.

NEW REMEDIES.

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**PREPARATIONS.**

SUPER AND ALL ESSENTIAL OILS,

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PRICES CURRENT ON APPLICATION.

TELEGRAMS—"SMITH NORWICH."



## LOFTHOUSE & SALTMER, MANUFACTURING CHEMISTS, WHOLESALE AND EXPORT DRUG MERCHANTS, HULL,

Manufacturers of all Pharmaceutical Preparations on the best and most improved principles. Quotations on Application.

**DEALERS IN PURE CHEMICALS**

For Medicinal, Photographic, and Commercial purposes.

Importers of Cod Liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all

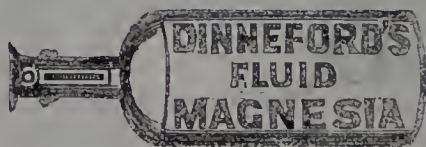
Special Agents for Sicilian Sublimed Sulphur in 2-cwt. bags, and Rolled Sulphur in 3-cwt.



Essential Oils; Valerian Saffron; Vanillas; Fruit Essence; Carmine; Aniline Dyes; Bees' Wax, &c., &c.

Most Favourable Quotations can be given to large Wholesale Dealers on application.

## DINNEFORD'S FLUID MAGNESIA.



PERFECT IN PURITY AND UNIFORM IN STRENGTH.

The most efficacious antacid and mild aperient for Delicate Constitutions, Ladies, Children, and Infants.

OF ALL WHOLESALE DRUGGISTS.

HALF A CENTURY OF SUCCESS

THE ONLY GENUINE MINT ALCOHOL IS

**DE RICQLÈS'**  
MINT ALCOHOL.

Recommended by the highest Medical Authorities for Indigestion, Stomach Ache, Heartburn, and Headache. It dispels immediately all uncomfortable feeling. Indispensable during the hot weather. An excellent article for the Toilet and Teeth. A grand Preservative during periods of Epidemics.  
53 AWARDS, of which 15 are Diplomas of Honour & 14 Gold Medals  
DEPOTS EVERYWHERE.

Manufactory:—Lyons (France), 9 Cours d'Herbouville  
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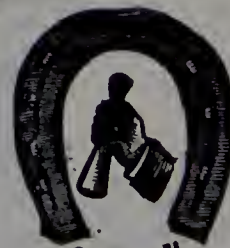
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*Saline.*

*Liquid Extracts.*

*Glycerine and*

*Cucumber.*

*Concentrated*

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*Liq. Papain et Iridin Co.*

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*Liq. EUCONYMINETGASCARE-SARRADÉ CO.*

*Liq. CAULOPHYLLIN ET PULSATILLA CO.*

*Liq. EUCONYMINETGASCARE-SARRADÉ CO.*

Liq. Pepticus.

Liq. Santal c. Buchu et  
Cubeba.

Liq. Cepsalbe c. Buchu, Cubeba,  
et Matico.

TELEGRAPHIC ADDRESS: "EDULCOR.".

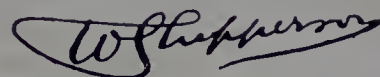
# To Enterprising Pharmacists.

As we notified in the CHEMIST AND DRUGGIST of the 18th July and 1st August, in connection with the Medical Congress, we published a series of twelve-page pamphlets, containing notes on foods, and other matter useful to Medical Men, Chemists, and Scientists. We now submit copies of indices of a few of these books, and earnestly ask you to glance over them and make a selection of those, if any, you consider most suitable for your customers, at the same time giving us an idea as to the number you desire sent.

If Specimens of any of our Preparations are desired for your Medical friends, we shall be very glad to have list shewing names and addresses.

THE LIQUOR CARNIS CO., LTD.,

50 HOLBORN VIADUCT, LONDON, E.C.



*Indicate D. M. Pamphlet.*

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*Indicate A. P. Pamphlet.*

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The above invitation having been responded to so heartily, we have deviated from our usual custom this week, and asked the Publisher to allow the same matter to appear, and again invite applications for literature and specimens from the Trade.

50 HOLBORN VIADUCT, LONDON, October 10, 1891.

THE LIQUOR CARNIS CO., LTD.

**TRADE REPORTS**

(WORTH NOTICING).

Mr. J. A. MOORE, Chemist, Grimsby, writing on September 13, 1891, reports:—

"The sale of Guy's Tonic is still increasing."

Messrs. DAVISON & PATTEN, Chemists, of Alnwick, writing on September 18, 1891, state:—

"We sell Guy's Tonic freely."

Mr. Y. LEWELLON, Chemist, The Triangle, Clevedon, writing on September 20, 1891, says:—

"Your medicines are in great demand here."

Mr. F. J. LEE, Chemist, 43 Tontine Street, Folkestone, writes on September 21, 1891:—

"I am judiciously distributing Books sent, and I have great pleasure in stating that my services are appreciated. To-day I have sold seven bottles of Guy's Tonic and have every reason to believe I shall make a great trade for it."

**PROGRESSIVE CHEMISTS**

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Guy's Tonic (for Indigestion and Nervousness) can be obtained of the Leading Wholesale Houses. It is prepared in one size only, retailing at 2/9 per bottle.

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PHOSPHODYNE**

For TWENTY-EIGHT YEARS has maintained its world wide reputation as

THE ONLY SAFE RELIABLE PHOSPHORIC CURE for Brain Wreckage, Paralysis, Sleeplessness, Harassing Dreams, Premature decay of Vital Power, and all Functional and Diseased Conditions of the System dependent upon the Deficiency of the Vital Forces.

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Is the only Medicine of the kind or name awarded a Certificate of Merit at the Calcutta Exhibition, 1883-4, where all Countries were Exhibitors, and the only Trade Mark—"PHOSPHODYNE"—Registered and Protected under the Trade Marks Act.

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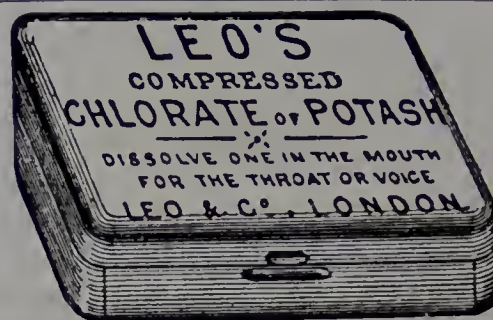
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HAMPSTEAD, LONDON, N.W.

CHEMISTS enclosing Trade Card will be supplied free with a neat Pamphlet for Counter, &c.

**LEO & CO.**

MANUFACTURERS OF

**COMPRESSED  
CHLORATE OF POTASH,**  
Chlorate of Potash and Borax,  
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They are Supplied by all the Wholesale Houses.

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(Dr. FINKLER & CO.)

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**DYSPEPSIA.**

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With Meat Albumen it forms true Peptons and Propeptons.

Its purely vegetable origin renders it a far more agreeable remedy than the animal ferments now in use.

An extended use by the leading English and Continental Physicians has proved it to possess

**Absolute Therapeutic Efficacy, Purity, & Uniformity.**

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Lancet, June 25, 1891; Medical Press and Circular, May 6, 1891; Edinburgh Med. Journal, September, 1891; Proc. Medical Journal, February and August, 1891; Medical Annual, 1891; Chemist and Druggist, August 1, 1891; British and Colonial Druggist, September 18, 1891.

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Powder, Medicated Lozenges, Pills, Tabloids, Liq. Papain et Acid Glycerine, Iridin, Casc. Sagrada, Bismuth.

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Samples and Pamphlets free to the Medical Profession.

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## MANUFACTURING CHEMISTS

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## DRUG GRINDERS.

WAREHOUSES, LABORATORIES, AND DRUG MILLS,  
**COVENTRY.**

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|                                  | Per lb. | Per 7 lbs. |
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| Compound Sulphur Pellets ...     | 1/9     | 1/6        |
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| Soda Mint Pellets ... ..         | 1/3     | 1/         |
| Voice Pellets (with Cocain) ...  | 3/      | 2/6        |

For Prices of Labelled Bottles and Boxes, see  
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### TRITURATES.

Small doses of powerful drugs in miniature pellets.  
Put up in small oblong white glass bottles, each  
containing 24 pellets and neatly labelled; in cases  
for the pocket. Price 3/6 per doz. cases.

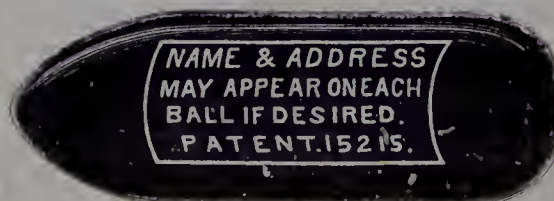
### TINCTURES.

Reduced to miniature Pellets and supplied in small  
oblong white glass bottles, in neat cases for pocket.  
Each bottle contains 24 pellets, and is nicely  
labelled. Price 3/6 per doz. cases.

**HYPODERMIC, ANTISEPTIC,**  
AND ALL OTHER  
**PELLETS.**

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|                                |     |            |
|--------------------------------|-----|------------|
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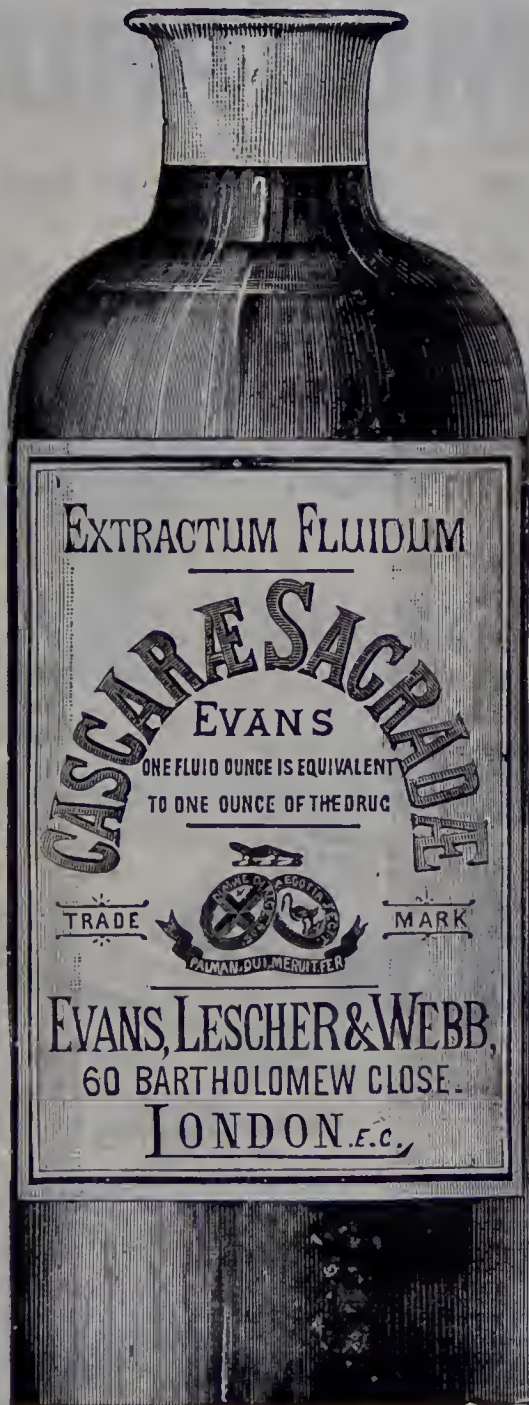
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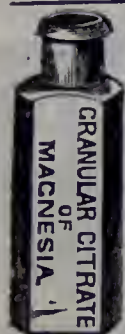
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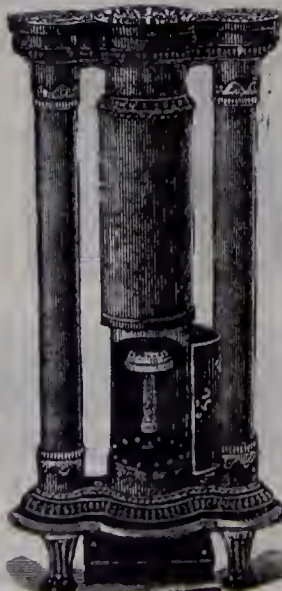
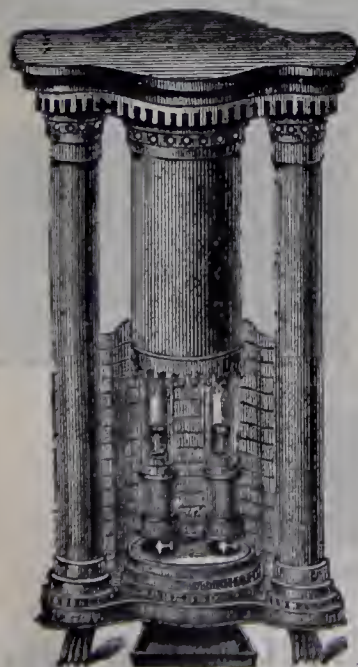


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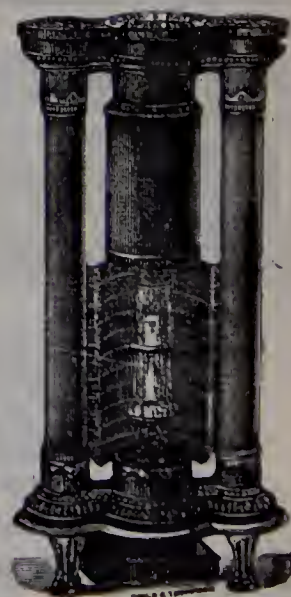
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SATURDAY, OCT. 10, 1891.

Partnerships.  
Situations Vacant.  
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**WANTED**, Business, with returns not less than £500; Light Retail and Dispensing. J. C. W., Montpellier, B. Salterton, Devon.

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**JUNIOR**, in Light Retail and Dispensing business. Apply personally, or send carte with full particulars to Harold Mitchell, The Merton Pharmacy, South Wimbledon.

**JUNIOR** (part-time); attend Wills' evening lectures. S., Merton Pharmacy, S. Wimbledon.

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**WANTED**, sharp, pushing Manager for branch shop; abstainer preferred. Apply by letter only, stating salary required, age, experience, &c., to J. W. Nobbs, M.P.S., R.D.S., Old Poplar Pharmacy, 285 East India Road, Poplar.

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**WANTED** an Improver, aged about 17. Apply, stating age, height, salary required, references and enclosing photo (to be returned), to Tribe & Lamb, Chemists, 211 High Street, Cbatnam.

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**WANTED**, an Assistant, Minor, about 24; indoors (bedroom found out); accustomed to good-class Dispensing and Retail; three kept. Apply personally, or by letter, enclosing photo with references, to O. Coutts Michie, 175 Kentish Town Road, N.W.

**JUNIOR** Assistant, about 22 or 23, accustomed to good-class Country business, wanted immediately; not necessarily qualified; three kept State age, height, experience, and salary required (indoors), when disengaged, and enclose carte, to "Cortex," 90 Western Road, Brighton.

**WANTED**, on November 1, a gentleman, aged about 24 years, with Minor (indoors), to take charge of Retail and Dispense for a doctor; first-class references as to capabilities and character required. Apply, before 11 A.M., at 606 Harrow Road, W., near Westbourne Park Station.

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*1s. for twelve words; 6d. for every six words beyond.*

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**PART-TIME**; Manchester; aged 22; 6½ years' experience. Cooper, 320 Regent Street, W.

**IMPROVER**; 2 years' experience; aged 20. Apply, Antliff, 353 Oclethorpes Road, Grimsby.

**QUALIFIED**; West End or suburbs; good references. Holmes, 67 Dover Street, Folkestone.

**ASSISTANT** (23); good experience; country preferred; disengaged Parkinson, Nettleham, Lincoln.

**A**S Junior; aged 23. S., 20 Elin Avenue, Nottingham.

**J**UNIOR; seven years' experience. H. B., 19 Milton Street, West Hartlepool.

**A**S Locum; day, week, or month. "Minor," 4 Erie Road, Walham Green, S.W.

**A**S Assistant; aged 25; disengaged; references. W. H., 16 Blossom Street, York.

**A**S Junior, in or near Liverpool; good references. "Mihl," 41 Mount Pleasant, Liverpool.

**J**UNIOR. In or near Manchester; West-end experience. Barritt, Moses Gate, Bolton.

**M**ANAGER or Temporary; good references. J. B. Burrell, 101 Haydon's Road, S. Wimbledon.

**J**UNIOR (20); passed Preliminary; abstainer; 6 years' experience. E. T. Cadoux, Chemist, Leicester.

**M**ANAGERSHIP, or ditto ultimate succession; registered; married. 145 George Street, Sandford, Longton.

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**A**SSISTANT, permanent, temporary, or Locum; age 23; good references; unqualified. G., 17 Richford Street, Hammersmith, W.

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**A**S Manager; qualified; good Prescriber and Tooth Extractor; married. Address, "Lapla," 2 Bawtree Road, Olifton Hill, New Cross, London.

**M**ANAGER or Senior; Minor; married; accustomed to good-class trade; permanency; suburbs or country preferred. P., 45 Malda Vale.

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**L**ADY desires situation as Dispenser; aged 37; understands house-keeping; highest references. 45/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

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**A**S Assistant in business doing a trade with shipping; Cardiff, Liverpool, or other seaport; 5 years in trade; short London experience; quick at dispensing; tall; age 20; good references. "Alpha," c/o Ellwood, Chemist, Leominster.

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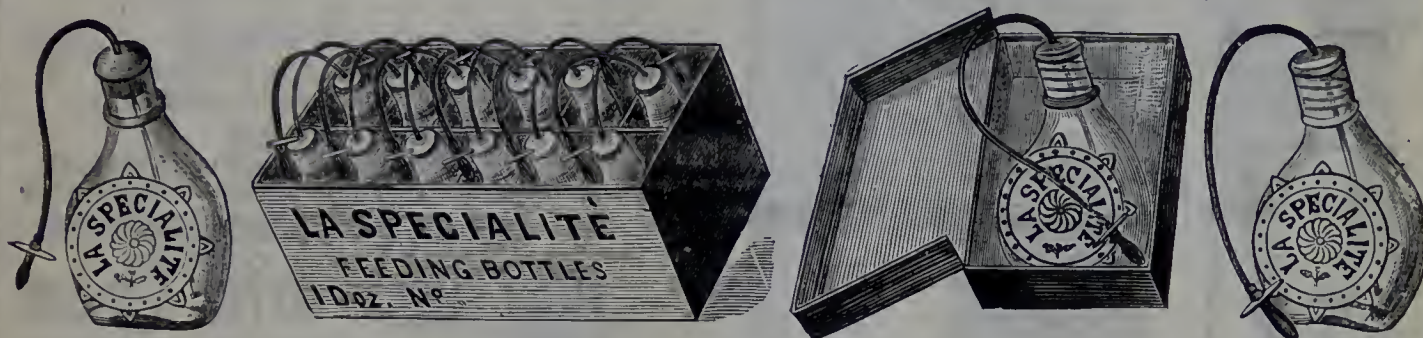
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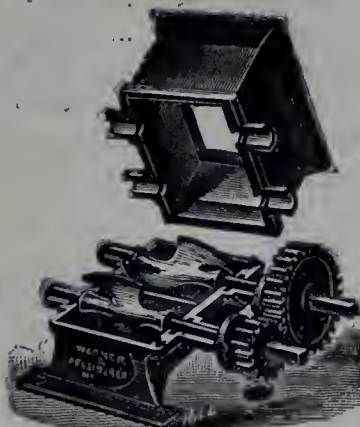
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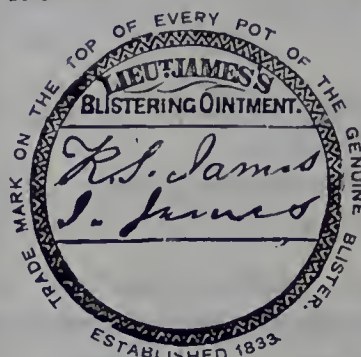
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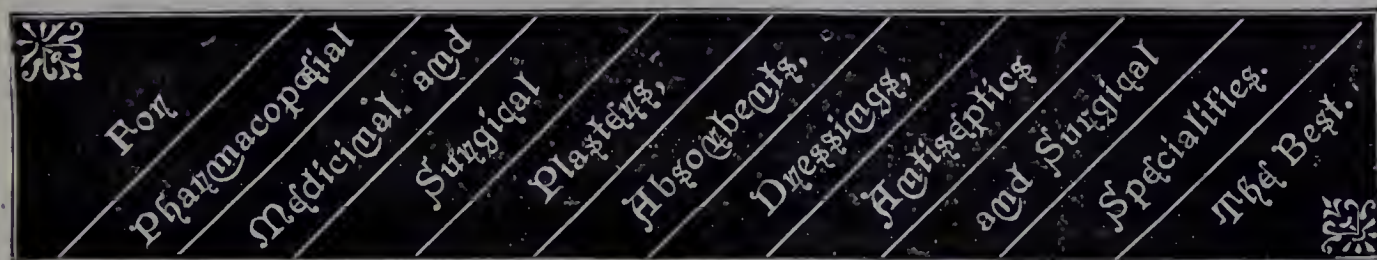
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